*** RMIS View/Print Document Cover Sheet ***

This document was retrieved from the Documentation and Records Management (DRM) ISEARCH System. It is intended for Information only and may not be the most recent or updated version. Contact a Document Service Center (see Hanford Info for locations) if you need additional retrieval information.

Accession #: D196077760

Document #: SD-WM-DP-154

Title/Desc:
FINAL REPORT FOR TANK 241BX109 PUSH MODE CORES 84 & 85 [SEC 2 OF 2]

Pages: 662

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-154

Section 2 **of** 2

Title: Final Report for Tank 241BX109 Push Mode Cores 84 & 85

Date: 4/12/96 **Revision:** A000 / ~~Tank~~ Project: TFARM

Originator: Schreiber RD
Co: WNC

Recipient:
Co:

References: EDT-614782

P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>

Sample: BASELINE Date: 03/27/96 Time: 09:10:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	0.80	37.50
3	1.50	1.20	33.33
4	2.00	1.90	36.84
5	2.50	2.30	17.39
6	3.00	2.50	8.00
7	3.50	3.10	19.35
8	4.00	3.50	11.43
9	4.50	4.00	12.50
10	5.00	4.50	11.11
11	5.50	5.00	10.00
12	6.00	5.20	3.85
13	6.50	5.80	10.34
14	7.00	6.10	4.92
15	7.50	6.50	6.15
16	8.00	7.00	7.14
17	8.50	7.40	5.41
18	9.00	7.80	5.13
19	9.50	8.20	4.88
20	10.00	8.90	7.87
21	10.50	9.20	3.26
22	11.00	9.50	3.16

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES ~~573.0~~ ~~573.4~~ 573.8 to 573.19

JLW 4/11/96

BLANK VALUE = 9.5 micrograms carbon
BLANK FACTOR = 9.5 / 11.0025 = +8.6E-01 ug/min Carbon

Sample Run By: Lola Weed for RW Schroeder 4/11/96
JL STEELE 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>> WHC-SD-WM-DP-154, REV. 0

Sample: BASELINE Date: 03/27/96 Time: 09:47:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.90	100.00
3	1.51	2.60	65.38
4	2.00	6.70	61.19
5	2.50	11.40	41.23
6	3.00	13.90	17.99
7	3.50	15.10	7.95
8	4.00	15.80	4.43
9	4.50	16.30	3.07
10	5.00	16.80	2.98
11	5.50	17.30	2.89
12	6.00	17.70	2.26
13	6.50	18.10	2.21
14	7.00	18.50	2.16
15	7.50	18.90	2.12
16	8.00	19.30	2.07
17	8.50	19.70	2.03
18	9.00	19.90	1.01
19	9.50	20.30	1.97
20	10.00	20.60	1.46
21	10.50	20.80	0.96
22	11.00	21.10	1.42

BLANK VALUE = 21.1 micrograms carbon
BLANK FACTOR = 21.1 / 11.00171 = +1.92E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JL STEELE 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: STD 17N12-F Date: 03/27/96 Time: 10:01:30

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .86 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	17.10	98.83
3	1.51	145.10	88.22
4	2.00	312.10	53.51
5	2.50	440.10	29.08
6	3.01	517.40	14.94
7	3.51	557.70	7.23
8	4.01	577.00	3.34
9	4.50	585.00	1.37
10	5.00	588.10	0.53
11	5.50	589.50	0.24
12	6.00	590.30	0.14
13	6.50	590.90	0.10
14	7.00	591.40	0.08
15	7.50	591.90	0.08
16	8.00	592.30	0.07
17	8.50	592.70	0.07
18	9.00	593.10	0.07
19	9.50	593.40	0.05
20	10.00	593.70	0.05
21	10.50	594.10	0.07
22	11.00	594.30	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 9.46147 micrograms carbon
BLANK FACTOR = 9.46147 / 11.00171 = +8.6E-01 ug/min Carbon

SAMPLE RESULTS:
(594.3 - 9.461417)(1)/(1) = +5.848E+02 g/L Carbon
(594.3 - 9.461417)(1)/(1)(12) = +4.874E+01 Molar Carbon

Sample Run By: JL STEELE 00000

$\frac{584.8}{600} \times 97.472 = 573.10$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: STD 16N12-E Date: 03/27/96 Time: 10:14:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.92 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	2.10	90.48
3	1.51	23.90	91.21
4	2.00	139.50	82.87
5	2.50	342.30	59.25
6	3.00	479.10	28.55
7	3.50	539.60	11.21
8	4.00	562.70	4.11
9	4.50	569.60	1.21
10	5.00	572.00	0.42
11	5.50	573.20	0.21
12	6.00	574.10	0.16
13	6.50	574.70	0.10
14	7.00	575.30	0.10
15	7.50	575.90	0.10
16	8.00	576.30	0.07
17	8.50	576.70	0.07
18	9.00	577.10	0.07
19	9.50	577.60	0.09
20	10.00	577.90	0.05
21	10.50	578.30	0.07
22	11.00	578.70	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 21.12328 micrograms carbon
BLANK FACTOR = 21.12328 / 11.00171 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(578.7 - 21.11777)(1)/(1) = +5.576E+02 g/L Carbon
(578.7 - 21.11777)(1)/(1)(12) = +4.647E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JL STEELE 00000

$\frac{557.6}{.200} = \frac{2.788^{E3}}{3.000^{E3}} = 92.93\%$ 573.11

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: BASE Date: 03/27/96 Time: 10:27:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .86 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	2.70	81.48
3	1.50	4.10	34.15
4	2.00	4.80	14.58
5	2.50	5.30	9.43
6	3.00	5.60	5.36
7	3.50	5.90	5.08
8	4.00	6.20	4.84
9	4.50	6.50	4.62
10	5.00	6.70	2.99
11	5.50	7.00	4.29
12	6.00	7.30	4.11
13	6.50	7.60	3.95
14	7.00	7.80	2.56
15	7.50	8.20	4.88
16	8.00	8.40	2.38
17	8.50	8.60	2.33
18	9.00	9.00	4.44
19	9.50	9.20	2.17
20	10.00	9.40	2.13
21	10.50	9.70	3.09
22	11.00	9.90	2.02

USER INPUT BLANK VALUE
BLANK VALUE = 9.46147 micrograms carbon
BLANK FACTOR = 9.46147 / 11.00171 = +8.6E-01 ug/min Carbon

SAMPLE RESULTS:
(9.9 - 9.459843)(1)/(1) = +4.4E-01 g/L Carbon
(9.9 - 9.459843)(1)/(1)(12) = +3.7E-02 Molar Carbon

Sample Run By: _____
JL STEELE 00000

| 9.90 - 9.50 | = .40

573.12

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BASE Date: 03/27/96 Time: 10:41:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.92 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	0.80	62.50
3	1.51	2.90	72.41
4	2.00	7.90	63.29
5	2.50	12.60	37.30
6	3.00	15.70	19.75
7	3.50	17.10	8.19
8	4.00	17.80	3.93
9	4.50	18.40	3.26
10	5.00	18.90	2.65
11	5.50	19.30	2.07
12	6.00	19.60	1.53
13	6.50	20.00	2.00
14	7.00	20.40	1.96
15	7.50	20.60	0.97
16	8.00	20.90	1.44
17	8.50	21.20	1.42
18	9.00	21.50	1.40
19	9.50	21.90	1.83
20	10.00	22.10	0.90
21	10.50	22.40	1.34
22	11.00	22.70	1.32

USER INPUT BLANK VALUE
BLANK VALUE = 21.12328 micrograms carbon
BLANK FACTOR = 21.12328 / 11.00171 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(22.7 - 21.11965)(1)/(1) = +1.58E+00 g/L Carbon
(22.7 - 21.11965)(1)/(1)(12) = +1.32E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JL STEELE 00000

|22.70 − 21.10| = 1.6

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: S95T000768 Date: 03/27/96 Time: 14:02:53

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .86 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	3.10	96.77
3	1.51	9.50	67.37
4	2.01	14.30	33.57
5	2.51	18.20	21.43
6	3.01	20.70	12.08
7	3.51	22.60	8.41
8	4.01	24.30	7.00
9	4.50	25.70	5.45
10	5.00	26.80	4.10
11	5.50	28.00	4.29
12	6.00	29.10	3.78
13	6.50	30.00	3.00
14	7.00	30.70	2.28
15	7.50	31.50	2.54
16	8.00	32.20	2.17
17	8.50	32.90	2.13
18	9.00	33.60	2.08
19	9.50	34.30	2.04
20	10.00	34.80	1.44
21	10.50	35.40	1.69
22	11.00	35.90	1.39

USER INPUT BLANK VALUE
BLANK VALUE = 9.46147 micrograms carbon
BLANK FACTOR = 9.46147 / 11.00171 = +8.6E-01 ug/min Carbon

SAMPLE RESULTS:
(35.9 - 9.462834)(1)/(1) = +2.64E+01 g/L Carbon
(35.9 - 9.462834)(1)/(1)(12) = +2.20E+00 Molar Carbon

Sample Run By: JL STEELE 00000

$\frac{26.4}{.10189} = 2.592$

573.14

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: S95T000768 Date: 03/27/96 Time: 14:15:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.92 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.60	0.00
2	1.01	5.10	88.24
3	1.51	12.30	58.54
4	2.00	26.70	53.93
5	2.50	41.80	36.12
6	3.00	50.50	17.23
7	3.50	54.60	7.51
8	4.00	57.10	4.38
9	4.50	58.70	2.73
10	5.00	60.00	2.17
11	5.50	61.10	1.80
12	6.00	62.10	1.61
13	6.50	62.80	1.11
14	7.00	63.50	1.10
15	7.50	64.20	1.09
16	8.00	64.90	1.08
17	8.50	65.50	0.92
18	9.00	65.90	0.61
19	9.50	66.40	0.75
20	10.00	66.90	0.75
21	10.50	67.30	0.59
22	11.00	67.70	0.59

USER INPUT BLANK VALUE
BLANK VALUE = 21.12328 micrograms carbon
BLANK FACTOR = 21.12328 / 11.00171 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(67.7 - 21.11976)(1)/(1) = +4.66E+01 g/L Carbon
(67.7 - 21.11976)(1)/(1)(12) = +3.88E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JL STEELE 00000

$\frac{466}{.10189g} = 4.57E2$ 573.15

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 768 DUP Date: 03/27/96 Time: 14:52:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .86 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	3.30	87.88
3	1.51	10.20	67.65
4	2.00	17.10	40.35
5	2.51	22.80	25.00
6	3.00	27.10	15.87
7	3.50	29.50	8.14
8	4.00	31.30	5.75
9	4.50	32.50	3.69
10	5.00	33.20	2.11
11	5.50	34.00	2.35
12	6.00	34.60	1.73
13	6.50	35.10	1.42
14	7.00	35.70	1.68
15	7.50	36.20	1.38
16	8.00	36.90	1.90
17	8.50	37.40	1.34
18	9.00	37.80	1.06
19	9.50	38.40	1.56
20	10.00	38.90	1.29
21	10.50	39.40	1.27
22	11.00	39.90	1.25

USER INPUT BLANK VALUE
BLANK VALUE = 9.46147 micrograms carbon
BLANK FACTOR = 9.46147 / 11.00171 = +8.6E-01 ug/min Carbon

SAMPLE RESULTS:
(39.9 - 9.46147)(1)/(1) = +3.04E+01 g/L Carbon
(39.9 - 9.46147)(1)/(1)(12) = +2.54E+00 Molar Carbon

Sample Run By: JL STEELE 00000

$\frac{30.4}{.11609} = 2.42^{EX}$ 573.16

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 768 DUP Date: 03/27/96 Time: 15:04:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.92 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	2.10	71.43
3	1.50	6.70	68.66
4	2.00	18.90	64.55
5	2.50	34.10	44.57
6	3.00	44.10	22.68
7	3.50	49.90	11.62
8	4.00	53.00	5.85
9	4.50	54.90	3.46
10	5.00	56.30	2.49
11	5.50	57.40	1.92
12	6.00	58.30	1.54
13	6.50	59.10	1.35
14	7.00	59.80	1.17
15	7.50	60.50	1.16
16	8.00	61.30	1.31
17	8.50	61.90	0.97
18	9.00	62.50	0.96
19	9.50	63.20	1.11
20	10.00	63.70	0.78
21	10.50	64.20	0.78
22	11.00	64.70	0.77

USER INPUT BLANK VALUE
BLANK VALUE = 21.12328 micrograms carbon
BLANK FACTOR = 21.12328 / 11.00171 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(64.7 - 21.1193)(1)/(1) = +4.36E+01 g/L Carbon
(64.7 - 21.1193)(1)/(1)(12) = +3.63E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JL STEELE 00000

$\frac{43.6}{.11609} = 3.76^{E2}$

573.17

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 768 SPIKE Date: 03/27/96 Time: 15:24:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .86 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	14.40	95.14
3	1.51	78.20	81.59
4	2.00	160.60	51.31
5	2.50	226.30	29.03
6	3.00	271.10	16.53
7	3.50	299.30	9.42
8	4.00	314.20	4.74
9	4.50	321.50	2.27
10	5.00	324.70	0.99
11	5.50	326.40	0.52
12	6.00	327.70	0.40
13	6.50	328.50	0.24
14	7.00	329.40	0.27
15	7.50	330.10	0.21
16	8.00	330.90	0.24
17	8.50	331.50	0.18
18	9.00	332.20	0.21
19	9.50	332.80	0.18
20	10.00	333.60	0.24
21	10.50	334.10	0.15
22	11.00	334.70	0.18

USER INPUT BLANK VALUE
BLANK VALUE = 9.46147 micrograms carbon
BLANK FACTOR = 9.46147 / 11.00171 = +8.6E-01 ug/min Carbon

SAMPLE RESULTS:
(334.7 - 9.460578)(1)/(1) = +3.252E+02 g/L Carbon
(334.7 - 9.460578)(1)/(1)(12) = +2.710E+01 Molar Carbon

Sample Run By: JL STEELE 00000

325.285 / .11277 = 334.70 / ((35.90/.10189)(.11277)+300) = 573.18

334.70 / 339.73 = 98.52%

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 768 SPIKE Date: 03/27/96 Time: 15:37:04

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.92 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	6.60	87.88
3	1.51	52.50	87.43
4	2.00	151.40	65.32
5	2.50	249.40	39.29
6	3.00	298.90	16.56
7	3.50	318.40	6.12
8	4.00	325.50	2.18
9	4.50	328.60	0.94
10	5.00	330.50	0.57
11	5.50	332.10	0.48
12	6.00	333.40	0.39
13	6.50	334.60	0.36
14	7.00	335.60	0.30
15	7.50	336.50	0.27
16	8.00	337.40	0.27
17	8.50	338.30	0.27
18	9.00	339.20	0.27
19	9.50	340.00	0.24
20	10.00	340.70	0.21
21	10.50	341.40	0.21
22	11.00	342.10	0.20

USER INPUT BLANK VALUE
BLANK VALUE = 21.12328 micrograms carbon
BLANK FACTOR = 21.12328 / 11.00171 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(342.1 - 21.12129)(1)/(1) = +3.210E+02 g/L Carbon
(342.1 - 21.12129)(1)/(1)(12) = +2.675E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JL STEELE 00000

342.10

$\frac{67.70}{.10189} \times .11277 + 300 = 573.19$

$\frac{342.10}{374.93} = 91.24\%$

LABCORE Data Entry Template for Worklist# 1987

Analyst: KR M **Instrument:** TOC01 **Book #** 16W128

Method: LA-342-100 Rev/Mod A-0

Worklist Comment: bx-109 toc-02

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	25.1	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00e3 4.27E2	2.79e3 3.32E2 RWS 8/15/95	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T001325	0		TOC-02	SOLID	N/A 4.27E2	3.21e2 3.32E2		ug/g
95000057	BX-109	4	DUP	S95T001325	0		TOC-02	SOLID	3.21E2 RWS 8/15/95	4.27e2 RWS 8/15/95	N/A	ug/g

Final page for worklist # 1987

8-11-95
Analyst Signature Date

RWSchneider 8/15/95
Analyst Signature Date

JMWood 8/15/95

TIC Data Included As Additional Information

Data Entry Comments: ~~FIRST RUN 3.32e2~~ RWS 8/15/95 Third ~~FOURTH RUN~~ 3.29e2

Tic supporting data included. RWS 8/15/95

A small amount of white solids remained after the reaction. RWS 8/21/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/11/95 Time: 01:17:19

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	0.20	50.00
3	1.50	0.50	60.00
4	2.00	0.80	37.50
5	2.50	1.00	20.00
6	3.00	1.10	9.09
7	3.50	1.30	15.38
8	4.00	1.40	7.14
9	4.50	1.60	12.50
10	5.00	1.70	5.88
11	5.50	1.80	5.56
12	6.00	1.90	5.26
13	6.50	2.00	5.00
14	7.00	2.20	9.09
15	7.50	2.20	0.00
16	8.00	2.40	8.33
17	8.50	2.50	4.00
18	9.00	2.60	3.85
19	9.50	2.70	3.70
20	10.00	2.80	3.57
21	10.50	2.90	3.45
22	11.00	3.10	6.45

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 575 TO 586.

BLANK VALUE = 3.1 micrograms carbon
BLANK FACTOR = 3.1 / 10.99967 = +2.8E-01 ug/min Carbon

Sample Run By: KR MONTEITH 8-11-95 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/11/95 Time: 01:29:20

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	2.40	100.00
3	1.51	9.10	73.63
4	2.00	13.80	34.06
5	2.50	16.80	17.86
6	3.00	18.00	6.67
7	3.50	19.10	5.76
8	4.00	20.00	4.50
9	4.50	20.40	1.96
10	5.00	21.00	2.86
11	5.50	21.40	1.87
12	6.00	21.70	1.38
13	6.50	22.00	1.36
14	7.00	22.40	1.79
15	7.50	22.80	1.75
16	8.00	23.20	1.72
17	8.50	23.60	1.69
18	9.00	24.00	1.67
19	9.50	24.20	0.83
20	10.00	24.40	0.82
21	10.50	24.80	1.61
22	11.00	25.10	1.20

BLANK VALUE = 25.1 micrograms carbon
BLANK FACTOR = 25.1 / 11.00067 = +2.28E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/11/95 Time: 02:09:33

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.70	0.00
2	1.01	189.50	98.58
3	1.50	372.10	49.07
4	2.01	470.40	20.90
5	2.51	518.20	9.22
6	3.01	538.00	3.68
7	3.51	544.90	1.27
8	4.00	547.60	0.49
9	4.50	549.10	0.27
10	5.00	550.20	0.20
11	5.50	550.90	0.13
12	6.00	551.60	0.13
13	6.50	552.10	0.09
14	7.00	552.80	0.13
15	7.50	553.20	0.07
16	8.00	553.60	0.07
17	8.50	554.00	0.07
18	9.00	554.40	0.07
19	9.50	554.80	0.07
20	10.00	555.10	0.05
21	10.50	555.40	0.05
22	11.00	555.70	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 3.080188 micrograms carbon
BLANK FACTOR = 3.080188 / 11.00067 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(555.7 - 3.080698)(1)/(1000) = +5.526E-01 g/L Carbon
(555.7 - 3.080698)(1)/(1000)(12) = +4.605E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0 WHC-SD-WM-DP-154, REV. C

Sample: STD Date: 08/11/95 Time: 01:55:47

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading ====	Analysis Time ====	Coulometer ====	% Difference ==
1	0.51	0.10	0.00
2	1.01	36.50	99.73
3	1.51	219.40	83.36
4	2.00	543.40	59.62
5	2.50	747.30	27.28
6	3.00	816.80	8.51
7	3.50	840.50	2.82
8	4.00	847.10	0.78
9	4.50	850.40	0.39
10	5.00	852.20	0.21
11	5.50	854.00	0.21
12	6.00	855.40	0.16
13	6.50	856.60	0.14
14	7.00	857.50	0.10
15	7.50	858.10	0.07
16	8.00	858.90	0.09
17	8.50	859.60	0.08
18	9.00	860.20	0.07
19	9.50	860.80	0.07
20	10.00	861.30	0.06
21	10.50	861.80	0.06
22	11.00	862.40	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 25.08153 micrograms carbon
BLANK FACTOR = 25.08153 / 11.00067 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(862.4 - 25.07924)(1)/(300) = +2.791E+00 g/L Carbon
(862.4 - 25.07924)(1)/(300)(12) = +2.326E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0 WHC-SD-WM-DP-154, REV C

Sample: 1325 Date: 08/11/95 Time: 02:23:25

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	6.70	97.01
3	1.51	18.10	62.98
4	2.00	28.40	36.27
5	2.50	36.40	21.98
6	3.00	41.20	11.65
7	3.50	44.20	6.79
8	4.00	45.90	3.70
9	4.50	47.00	2.34
10	5.00	47.80	1.67
11	5.50	48.20	0.83
12	6.00	48.60	0.82
13	6.50	49.00	0.82
14	7.00	49.50	1.01
15	7.50	49.90	0.80
16	8.00	50.30	0.80
17	8.50	50.70	0.79
18	9.00	51.00	0.59
19	9.50	51.40	0.78
20	10.00	51.70	0.58
21	10.50	52.10	0.77
22	11.00	52.40	0.57

USER INPUT BLANK VALUE
BLANK VALUE = 3.080188 micrograms carbon
BLANK FACTOR = 3.080188 / 11.00067 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(52.4 - 3.079906)(1)/(1) = +4.93E+01 g/L Carbon
(52.4 - 3.079906)(1)/(1)(12) = +4.11E+00 Molar Carbon

Sample Run By: KR MONTEITH 00000

Supporting data Result too low

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 1325 Date: 08/11/95 Time: 02:35:31

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	4.00	100.00
3	1.51	14.00	71.43
4	2.00	25.60	45.31
5	2.50	35.00	26.86
6	3.00	40.20	12.94
7	3.50	43.20	6.94
8	4.00	45.50	5.05
9	4.50	47.10	3.40
10	5.00	48.30	2.48
11	5.50	49.20	1.83
12	6.00	50.10	1.80
13	6.50	50.90	1.57
14	7.00	51.50	1.17
15	7.50	52.10	1.15
16	8.00	52.60	0.95
17	8.50	53.10	0.94
18	9.00	53.60	0.93
19	9.50	54.10	0.92
20	10.00	54.60	0.92
21	10.50	55.10	0.91
22	11.00	55.50	0.72

USER INPUT BLANK VALUE
BLANK VALUE = 25.08153 micrograms carbon
BLANK FACTOR = 25.08153 / 11.00067 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(55.5 - 25.08153)(1)/(1) = +3.04E+01 g/L Carbon
(55.5 - 25.08153)(1)/(1)(12) = +2.53E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

Supporting data; Result tool on

.0948g = 3.21 in²

580

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 1325 Date: 08/11/95 Time: 02:48:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	32.80	96.65
3	1.51	91.60	64.19
4	2.00	154.90	40.87
5	2.50	210.10	26.27
6	3.00	254.20	17.35
7	3.50	283.50	10.34
8	4.00	303.40	6.56
9	4.50	316.80	4.23
10	5.00	327.80	3.36
11	5.50	336.60	2.61
12	6.00	344.60	2.32
13	6.50	351.50	1.96
14	7.00	357.60	1.71
15	7.50	362.50	1.35
16	8.00	367.20	1.28
17	8.50	371.80	1.24
18	9.00	375.00	0.85
19	9.50	378.50	0.92
20	10.00	381.20	0.71
21	10.50	383.90	0.70
22	11.00	386.10	0.57

USER INPUT BLANK VALUE
BLANK VALUE = 3.080188 micrograms carbon
BLANK FACTOR = 3.080188 / 11.00067 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(386.1 - 3.080427)(1)/(1) = +3.830E+02 g/L Carbon
(386.1 - 3.080427)(1)/(1)(12) = +3.192E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

supporting data

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 1325 Date: 08/11/95 Time: 04:25:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading ====	Analysis Time ====	Coulometer ====	% Difference ==
1	0.51	3.10	0.00
2	1.00	15.10	79.47
3	1.50	42.50	64.47
4	2.00	98.10	56.68
5	2.50	157.10	37.56
6	3.01	196.40	20.01
7	3.51	221.00	11.13
8	4.00	237.30	6.87
9	4.50	248.40	4.47
10	5.00	258.50	3.91
11	5.50	265.80	2.75
12	6.00	271.90	2.24
13	6.50	276.90	1.81
14	7.00	281.20	1.53
15	7.50	285.20	1.40
16	8.00	289.00	1.31
17	8.50	292.60	1.23
18	9.00	295.90	1.12
19	9.50	298.50	0.87
20	10.00	300.70	0.73
21	10.50	302.90	0.73
22	11.00	304.80	0.62

USER INPUT BLANK VALUE
BLANK VALUE = 25.08153 micrograms carbon
BLANK FACTOR = 25.08153 / 11.00067 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(304.8 - 25.08153)(1)/(1) = +2.797E+02 g/L Carbon
(304.8 - 25.08153)(1)/(1)(12) = +2.331E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$.6556 = 4.27 e^{?}$

582

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0 WHC-SD-WM-DP-154, REV. 0

Sample: 1325 Date: 08/11/95 Time: 04:42:35

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	30.20	100.00
3	1.50	130.00	76.77
4	2.00	225.90	42.45
5	2.50	303.00	25.45
6	3.00	358.90	15.58
7	3.50	399.60	10.19
8	4.00	426.20	6.24
9	4.50	445.90	4.42
10	5.00	460.90	3.25
11	5.50	473.20	2.60
12	6.00	483.60	2.15
13	6.50	492.10	1.73
14	7.00	499.40	1.46
15	7.50	505.30	1.17
16	8.00	510.20	0.96
17	8.50	514.80	0.89
18	9.00	518.30	0.68
19	9.50	521.60	0.63
20	10.00	524.50	0.55
21	10.50	526.90	0.46
22	11.00	529.00	0.40

USER INPUT BLANK VALUE
BLANK VALUE = 3.080188 micrograms carbon
BLANK FACTOR = 3.080188 / 11.00067 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(529 - 3.079906)(1)/(1) = +5.259E+02 g/L Carbon
(529 - 3.079906)(1)/(1)(12) = +4.383E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

Supporting data

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 1325 Date: 08/11/95 Time: 05:02:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.90	0.00
2	1.01	22.30	91.48
3	1.51	83.40	73.26
4	2.00	159.40	47.68
5	2.50	203.40	21.63
6	3.00	227.20	10.48
7	3.50	241.20	5.80
8	4.00	250.90	3.87
9	4.50	258.00	2.75
10	5.00	263.90	2.24
11	5.50	269.90	2.22
12	6.00	274.60	1.71
13	6.50	275.30	0.25
14	7.00	276.80	0.54
15	7.50	282.30	1.95
16	8.00	288.70	2.22
17	8.50	293.20	1.53
18	9.00	297.10	1.31
19	9.50	300.30	1.07
20	10.00	303.30	0.99
21	10.50	305.90	0.85
22	11.00	308.80	0.94

USER INPUT BLANK VALUE
BLANK VALUE = 25.08153 micrograms carbon
BLANK FACTOR = 25.08153 / 11.00067 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(308.8 - 25.08153)(1)/(1) = +2.837E+02 g/L Carbon
(308.8 - 25.08153)(1)/(1)(12) = +2.364E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$.8549 = 3.32^2$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 1325 Date: 08/11/95 Time: 05:14:13

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	4.20	0.00
2	1.01	57.00	92.63
3	1.51	138.80	58.93
4	2.01	213.60	35.02
5	2.51	265.60	19.58
6	3.01	300.00	11.47
7	3.51	324.30	7.49
8	4.01	341.90	5.15
9	4.50	356.90	4.20
10	5.00	369.70	3.46
11	5.50	380.20	2.76
12	6.00	389.10	2.29
13	6.50	396.20	1.79
14	7.00	402.70	1.61
15	7.50	408.30	1.37
16	8.00	412.70	1.07
17	8.50	416.60	0.94
18	9.00	420.20	0.86
19	9.50	423.00	0.66
20	10.00	426.10	0.73
21	10.50	428.20	0.49
22	11.00	430.20	0.46

USER INPUT BLANK VALUE
BLANK VALUE = 3.080188 micrograms carbon
BLANK FACTOR = 3.080188 / 11.00067 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(430.2 - 3.080197)(1)/(1) = +4.271E+02 g/L Carbon
(430.2 - 3.080197)(1)/(1)(12) = +3.559E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

Supporting data

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 1325 Date: 08/11/95 Time: 05:26:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	4.80	0.00
2	1.01	41.70	88.49
3	1.51	83.60	50.12
4	2.00	118.70	29.57
5	2.50	142.70	16.82
6	3.00	158.80	10.14
7	3.50	168.50	5.76
8	4.01	176.00	4.26
9	4.50	183.10	3.88
10	5.00	188.90	3.07
11	5.50	193.70	2.48
12	6.00	198.50	2.42
13	6.50	202.90	2.17
14	7.00	206.90	1.93
15	7.50	210.30	1.62
16	8.00	213.80	1.64
17	8.50	217.80	1.84
18	9.00	221.00	1.45
19	9.50	223.60	1.16
20	10.00	226.20	1.15
21	10.50	229.20	1.31
22	11.00	232.40	1.38

USER INPUT BLANK VALUE
BLANK VALUE = 25.08153 micrograms carbon
BLANK FACTOR = 25.08153 / 11.00067 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(232.4 - 25.07924)(1)/(1) = +2.073E+02 g/L Carbon
(232.4 - 25.07924)(1)/(1)(12) = +1.728E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

Supporting data

.6303g = 3.29E²

LABCORE Data Entry Template for Worklist# 2731

Analyst: KRM **Instrument:** TIC01 **Book #** 16W12B

Method: LA-342-100 Rev/Mod B-0

Worklist Comment: TOC-02 BX-109 KRM X RWS 11/2/95

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	24.8	N/A	ug/g
		2	STD				TOC-02	SOLID	3.006[3]	2.846[3]	N/A	ug/g
95000059	BX-109	3	SAMPLE	S95T002283	0		TOC-02	SOLID	N/A	4.266[2]	4.00[E1]	ug/g
95000059	BX-109	4	DUP	S95T002283	0		TOC-02	SOLID	4.266[2]	~~4.526[2]~~	4.54e2	ug/g
95000059	BX-109	5	SPK	S95T002283	0		TOC-02	SOLID	100	94.3	N/A	ug/g

RWS 4/10/96

Final page for worklist # 2731

Analyst Signature Date 10-4-95 06:00

Analyst Signature Date 10-4-95

Reviewed by RW Schmeltz 10/4/95

Data Entry Comments: TIC Data Included As Additional Information

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/03/95 Time: 23:48:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	0.20	50.00
3	1.51	0.40	50.00
4	2.01	0.70	42.86
5	2.51	0.90	22.22
6	3.01	1.00	10.00
7	3.51	1.20	16.67
8	4.01	1.30	7.69
9	4.50	1.40	7.14
10	5.00	1.50	6.67
11	5.50	1.70	11.76
12	6.00	1.80	5.56
13	6.50	1.90	5.26
14	7.00	2.00	5.00
15	7.50	2.10	4.76
16	8.00	2.20	4.55
17	8.50	2.30	4.35
18	9.00	2.40	4.17
19	9.50	2.50	4.00
20	10.00	2.60	3.85
21	10.50	2.70	3.70
22	11.00	2.80	3.57

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 596 **TO** 597.

BLANK VALUE = 2.8 micrograms carbon
BLANK FACTOR = 2.8 / 11.00061 = +2.5E-01 ug/min Carbon

Sample Run By: KR MONTEITH 10-4-95 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>> WHC-SD-WM-DP-154, REV. 0

Sample: BLK Date: 10/04/95 Time: 01:01:11

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.50	100.00
3	1.50	5.70	73.68
4	2.00	10.10	43.56
5	2.50	13.70	26.28
6	3.00	15.90	13.84
7	3.50	17.30	8.09
8	4.00	18.40	5.98
9	4.50	19.10	3.66
10	5.00	19.70	3.05
11	5.50	20.20	2.48
12	6.00	20.80	2.88
13	6.50	21.20	1.89
14	7.00	22.00	3.64
15	7.50	22.40	1.79
16	8.00	22.90	2.18
17	8.50	23.20	1.29
18	9.00	23.50	1.28
19	9.50	23.90	1.67
20	10.00	24.20	1.24
21	%-1429.50	24.50	1.22
22	%-1429.00	24.80	1.21

BLANK VALUE = 24.8 micrograms carbon
BLANK FACTOR = 24.8 / ~~-1429~~ 10-9-95 = 11.00

2.2545E0
~~-1.74E-02~~ ug/min Carbon

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0 WHC-SD-WM-DP-154, REV. 0

Sample: STD Date: 10/04/95 Time: 01:15:28

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	81.30	100.00
3	1.50	275.60	70.50
4	2.00	425.30	35.20
5	2.50	513.70	17.21
6	3.00	554.00	7.27
7	3.50	571.60	3.08
8	4.00	577.80	1.07
9	4.50	580.30	0.43
10	5.00	581.70	0.24
11	5.50	582.30	0.10
12	6.00	582.90	0.10
13	6.50	583.40	0.09
14	7.00	583.90	0.09
15	7.50	584.30	0.07
16	8.00	584.60	0.05
17	8.50	585.00	0.07
18	9.00	585.20	0.03
19	9.50	585.40	0.03
20	10.00	585.70	0.05
21	10.50	586.00	0.05
22	11.00	586.10	0.02

USER INPUT BLANK VALUE
BLANK VALUE = -357.2501 micrograms carbon
BLANK FACTOR = -357.2501 /-1429 = +2.5E-01 ug/min Carbon

SAMPLE RESULTS:
(586.1 - 2.749458)(1)/(1000) = +5.834E-01 g/L Carbon
(586.1 - 2.749458)(1)/(1000)(12) = +4.861E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/04/95 Time: 01:27:37

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	68.70	100.00
3	1.50	379.70	81.91
4	2.00	711.50	46.63
5	2.50	825.10	13.77
6	3.00	854.10	3.40
7	3.50	863.50	1.09
8	4.00	867.00	0.40
9	4.50	869.10	0.24
10	5.00	870.50	0.16
11	5.50	871.50	0.11
12	6.00	872.50	0.11
13	6.50	873.20	0.08
14	7.00	873.80	0.07
15	7.50	874.30	0.06
16	8.00	874.90	0.07
17	8.50	875.30	0.05
18	9.00	875.70	0.05
19	9.50	876.10	0.05
20	10.00	876.50	0.05
21	10.50	876.80	0.03
22	11.00	877.10	0.03

USER INPUT BLANK VALUE
BLANK VALUE = -3215.251 micrograms carbon
BLANK FACTOR = -3215.251 /-1429 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(877.1 - 24.74512)(1)/(300) = +2.841E+00 g/L Carbon
(877.1 - 24.74512)(1)/(300)(12) = +2.368E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 2283 Date: 10/04/95 Time: 01:39:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.00	32.60	100.00
3	1.50	95.60	65.90
4	2.01	151.50	36.90
5	2.51	201.90	24.96
6	3.01	243.50	17.08
7	3.50	276.40	11.90
8	4.00	302.30	8.57
9	4.50	321.70	6.03
10	5.00	336.50	4.40
11	5.50	348.20	3.36
12	6.00	357.50	2.60
13	6.50	365.00	2.05
14	7.00	371.70	1.80
15	7.50	377.60	1.56
16	8.00	382.90	1.38
17	8.50	388.10	1.34
18	9.00	392.60	1.15
19	9.50	396.80	1.06
20	10.00	400.80	1.00
21	10.50	404.60	0.94
22	11.00	408.10	0.86

USER INPUT BLANK VALUE
BLANK VALUE = -357.2501 micrograms carbon
BLANK FACTOR = -357.2501 /-1429 = +2.5E-01 ug/min Carbon

SAMPLE RESULTS:
(408.1 - 2.750124)(1)/(1) = +4.053E+02 g/L Carbon
(408.1 - 2.750124)(1)/(1)(12) = +3.378E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

405.3/.4473 =

592

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 2283 Date: 10/04/95 Time: 01:51:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	5.10	0.00
2	1.01	26.40	80.68
3	1.50	93.00	71.61
4	2.00	136.80	32.02
5	2.50	160.10	14.55
6	3.00	173.40	7.67
7	3.50	181.70	4.57
8	4.00	187.60	3.14
9	4.50	192.20	2.39
10	5.00	195.40	1.64
11	5.50	198.20	1.41
12	6.00	200.50	1.15
13	6.50	202.70	1.09
14	7.00	204.50	0.88
15	7.50	206.40	0.92
16	8.00	208.20	0.86
17	8.50	209.60	0.67
18	9.00	211.00	0.66
19	9.50	212.20	0.57
20	10.00	213.20	0.47
21	10.50	214.30	0.51
22	11.00	215.30	0.46

USER INPUT BLANK VALUE
BLANK VALUE = -3215.251 micrograms carbon
BLANK FACTOR = -3215.251 /-1429 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(215.3 - 24.74324)(1)/(1) = +1.906E+02 g/L Carbon
(215.3 - 24.74324)(1)/(1)(12) = +1.588E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

190.6/.4473 = 4.26e2 593

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 2283 Date: 10/04/95 Time: 02:04:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	20.50	95.12
3	1.51	75.70	72.92
4	2.00	135.70	44.22
5	2.50	190.30	28.69
6	3.00	236.40	19.50
7	3.50	275.60	14.22
8	4.00	305.70	9.85
9	4.50	329.70	7.28
10	5.00	348.80	5.48
11	5.50	364.20	4.23
12	6.00	376.60	3.29
13	6.50	387.20	2.74
14	7.00	396.10	2.25
15	7.50	404.80	2.15
16	8.00	412.50	1.87
17	8.50	419.30	1.62
18	9.00	425.70	1.50
19	9.50	431.80	1.41
20	10.00	437.50	1.30
21	10.50	442.30	1.09
22	11.00	446.90	1.03

USER INPUT BLANK VALUE
BLANK VALUE = -357.2501 micrograms carbon
BLANK FACTOR = -357.2501 /-1429 = +2.5E-01 ug/min Carbon

SAMPLE RESULTS:
(446.9 - 2.7495)(1)/(1) = +4.442E+02 g/L Carbon
(446.9 - 2.7495)(1)/(1)(12) = +3.701E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

444.2/.4520 = 9.83E 2

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 2283 Date: 10/04/95 Time: 02:16:13

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = .
Blank Value = 2.25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	7.20	0.00
2	1.01	34.00	78.82
3	1.50	107.60	68.40
4	2.00	149.50	28.03
5	2.50	172.30	13.23
6	3.00	185.80	7.27
7	3.50	193.80	4.13
8	4.00	199.40	2.81
9	4.50	203.90	2.21
10	5.00	206.90	1.45
11	5.50	210.00	1.48
12	6.00	212.30	1.08
13	6.50	214.60	1.07
14	7.00	216.70	0.97
15	7.50	218.60	0.87
16	8.00	220.60	0.91
17	8.50	222.50	0.85
18	9.00	224.10	0.71
19	9.50	225.80	0.75
20	10.00	227.30	0.66
21	10.50	228.70	0.61
22	11.00	229.90	0.52

USER INPUT BLANK VALUE
BLANK VALUE = -3215.251 micrograms carbon
BLANK FACTOR = -3215.251 /-1429 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(229.9 - 24.74924)(1)/(1) = +2.052E+02 g/L Carbon
(229.9 - 24.74924)(1)/(1)(12) = +1.710E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

205.2/4520 = 4.54%

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 2283 + SPK Date: 10/04/95 Time: 02:29:28

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	10.50	0.00
2	1.01	88.40	88.12
3	1.50	191.40	53.81
4	2.00	297.10	35.58
5	2.50	389.10	23.64
6	3.00	461.40	15.67
7	3.50	513.60	10.16
8	4.00	549.70	6.57
9	4.50	574.40	4.30
10	5.00	592.30	3.02
11	5.50	606.20	2.29
12	6.00	616.50	1.67
13	6.50	625.40	1.42
14	7.00	633.20	1.23
15	7.50	640.30	1.11
16	8.00	646.40	0.94
17	8.50	651.80	0.83
18	9.00	656.70	0.75
19	9.50	660.90	0.64
20	10.00	664.90	0.60
21	10.50	668.50	0.54
22	11.00	671.80	0.49

USER INPUT BLANK VALUE
BLANK VALUE = -357.2501 micrograms carbon
BLANK FACTOR = -357.2501 /-1429 = +2.5E-01 ug/min Carbon

SAMPLE RESULTS:
(671.8 - 2.750164)(1)/(1) = +6.690E+02 g/L Carbon
(671.8 - 2.750164)(1)/(1)(12) = +5.575E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

$$\frac{669.0}{\left[\left(\frac{408.1}{.4473}\right).3838\right] + 300} = 102.9\%\ Rec$$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 2283 + SPK Date: 10/04/95 Time: 02:42:00

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.25 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.90	0.00
2	1.01	55.30	92.95
3	1.50	261.90	78.89
4	2.00	366.90	28.62
5	2.50	403.10	8.98
6	3.00	418.00	3.56
7	3.50	426.00	1.88
8	4.00	431.20	1.21
9	4.50	434.80	0.83
10	5.00	437.60	0.64
11	5.50	440.10	0.57
12	6.00	442.30	0.50
13	6.50	444.40	0.47
14	7.00	446.00	0.36
15	7.50	447.50	0.34
16	8.00	448.90	0.31
17	8.50	450.30	0.31
18	9.00	451.90	0.35
19	9.50	453.10	0.26
20	10.00	454.60	0.33
21	10.50	455.80	0.26
22	11.00	457.00	0.26

USER INPUT BLANK VALUE
BLANK VALUE = -3215.251 micrograms carbon
BLANK FACTOR = -3215.251 /-1429 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(457 - 24.74736)(1)/(1) = +4.323E+02 g/L Carbon
(457 - 24.74736)(1)/(1)(12) = +3.602E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

457.0

Sample Run By: KR MONTEITH 00000

$\left[\left(\frac{215.3}{.4473}\right).3838\right] + 300 =$ 94.3% Rec

LABCORE Data Entry Template for Worklist# 3527

Analyst: KRM **Instrument:** CARB2 **Book #** 16012B

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BX-109 TOC

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	5.1	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00e3	2.89e3	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000759	0		TOC-02	SOLID	N/A	1.07e3	40	ug/g
95000057	BX-109	4	DUP	S95T000759	0		TOC-02	SOLID	1.07e3	9.21e2	N/A	ug/g
95000057	BX-109	5	SPK	S95T000759	0		TOC-02	SOLID	100	95.4	N/A	ug/g

Final page for worklist # 3527

Analyst Signature Date 11-10-95

Analyst Signature Date 11-17-95

Reviewed Ruf Schneider 11/20/95

TIC Data Included As Additional Information

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 11/10/95 Time: 08:50:59

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.40	50.00
3	1.51	0.80	50.00
4	2.00	1.20	33.33
5	2.50	1.50	20.00
6	3.00	1.80	16.67
7	3.50	2.00	10.00
8	4.00	2.30	13.04
9	4.50	2.60	11.54
10	5.00	2.80	7.14
11	5.50	3.00	6.67
12	6.00	3.20	6.25
13	6.50	3.50	8.57
14	7.00	3.70	5.41
15	7.50	3.90	5.13
16	8.00	4.10	4.88
17	8.50	4.30	4.65
18	9.00	4.50	4.44
19	9.50	4.80	6.25
20	10.00	5.00	4.00
21	10.50	5.20	3.85
22	11.00	5.40	3.70

BLANK VALUE = 5.4 micrograms carbon
BLANK FACTOR = 5.4 / 10.99969 = +4.9E-01 ug/min Carbon

Sample Run By: KR MONTEITH 11-10-95 00000

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 599 TO 610.

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>> WHC-SD-WM-DP-154, REV. 0

Sample: BLK Date: 11/10/95 Time: 09:04:50

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	1.20	91.67
3	1.50	4.20	71.43
4	2.00	7.40	43.24
5	2.50	9.30	20.43
6	3.01	10.40	10.58
7	3.50	11.10	6.31
8	4.00	11.60	4.31
9	4.50	12.10	4.13
10	5.00	12.60	3.97
11	5.50	13.20	4.55
12	6.00	13.70	3.65
13	6.50	14.10	2.84
14	7.00	14.40	2.08
15	7.50	14.90	3.36
16	8.00	15.20	1.97
17	8.50	15.60	2.56
18	9.00	15.80	1.27
19	9.50	16.00	1.25
20	10.00	16.50	3.03
21	10.50	16.70	1.20
22	11.00	17.00	1.76

BLANK VALUE = 17 micrograms carbon
BLANK FACTOR = 17 / 10.99982 = +1.55E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 11/10/95 Time: 09:18:00

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .49 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.10	0.00
2	1.01	42.30	99.76
3	1.51	211.90	80.04
4	2.00	378.80	44.06
5	2.50	491.20	22.88
6	3.00	548.90	10.51
7	3.50	575.10	4.56
8	4.00	586.10	1.88
9	4.50	591.10	0.85
10	5.00	593.70	0.44
11	5.50	595.30	0.27
12	6.00	596.50	0.20
13	6.50	597.50	0.17
14	7.00	598.30	0.13
15	7.50	599.00	0.12
16	8.00	599.70	0.12
17	8.50	600.30	0.10
18	9.00	600.80	0.08
19	9.50	601.30	0.08
20	10.00	601.60	0.05
21	10.50	602.10	0.08
22	11.00	602.50	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 5.38991 micrograms carbon
BLANK FACTOR = 5.38991 / 10.99982 = +4.9E-01 ug/min Carbon

SAMPLE RESULTS:
(602.5 - 5.390359)(1)/(1000) = +5.971E-01 g/L Carbon
(602.5 - 5.390359)(1)/(1000)(12) = +4.976E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 11/10/95 Time: 09:30:04

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.55 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.40	0.00
2	1.01	10.90	96.33
3	1.50	103.20	89.44
4	2.00	291.30	64.57
5	2.50	455.50	36.05
6	3.00	534.60	14.80
7	3.50	565.50	5.46
8	4.00	576.90	1.98
9	4.50	581.40	0.77
10	5.00	584.10	0.46
11	5.50	585.80	0.29
12	6.00	587.10	0.22
13	6.50	588.30	0.20
14	7.00	589.10	0.14
15	7.50	590.10	0.17
16	8.00	590.70	0.10
17	8.50	591.60	0.15
18	9.00	592.00	0.07
19	9.50	592.60	0.10
20	10.00	593.10	0.08
21	10.50	593.60	0.08
22	11.00	594.00	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 17.04972 micrograms carbon
BLANK FACTOR = 17.04972 / 10.99982 = +1.5E+00 ug/min Carbon

SAMPLE RESULTS:
(594 - 17.05104)(1)/(200) x1000 = +2.885E+00 g/L Carbon
(594 - 17.05104)(1)/(200)(12) = +2.404E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0 WHC-SD-WM-DP-154, REV. 0

Sample: R BLK Date: 11/10/95 Time: 11:28:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .49 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	1.20	83.33
3	1.51	1.80	33.33
4	2.00	2.30	21.74
5	2.50	2.60	11.54
6	3.00	2.80	7.14
7	3.50	3.00	6.67
8	4.00	3.20	6.25
9	4.50	3.30	3.03
10	5.00	3.50	5.71
11	5.50	3.70	5.41
12	6.00	3.80	2.63
13	6.50	3.90	2.56
14	7.00	4.10	4.88
15	7.50	4.20	2.38
16	8.00	4.40	4.55
17	8.50	4.50	2.22
18	9.00	4.60	2.17
19	9.50	4.80	4.17
20	10.00	4.90	2.04
21	10.50	5.00	2.00
22	11.00	5.20	3.85

USER INPUT BLANK VALUE
BLANK VALUE = 5.38991 micrograms carbon
BLANK FACTOR = 5.38991 / 10.99982 = +4.9E-01 ug/min Carbon

SAMPLE RESULTS:
(5.2 - 5.389821)(1)/(1) = < 5.00 E-3 g/L Carbon
(5.2 - 5.389821)(1)/(1)(12) = < 4.17 E-4 Molar Carbon

Sample Run By: KR MONTEITH 00000

L 5

P

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: R BLK Date: 11/10/95 Time: 11:41:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.55 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.80	100.00
3	1.50	3.10	74.19
4	2.00	5.40	42.59
5	2.50	6.90	21.74
6	3.00	7.80	11.54
7	3.50	8.50	8.24
8	4.00	8.90	4.49
9	4.50	9.20	3.26
10	5.00	9.50	3.16
11	5.50	9.80	3.06
12	6.00	10.00	2.00
13	6.50	10.30	2.91
14	7.00	10.50	1.90
15	7.50	10.70	1.87
16	8.00	10.90	1.83
17	8.50	11.10	1.80
18	9.00	11.30	1.77
19	9.50	11.50	1.74
20	10.00	11.60	0.86
21	10.50	11.80	1.69
22	11.00	11.90	0.84

USER INPUT BLANK VALUE
BLANK VALUE = 17.04972 micrograms carbon
BLANK FACTOR = 17.04972 / 10.99982 = +1.5E+00 ug/min Carbon

SAMPLE RESULTS:
(11.9 - 17.04934)(1)/(1) = < 5.00 E-3 g/L Carbon
(11.9 - 17.04934)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

L 40

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 759 Date: 11/10/95 Time: 14:09:26

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .49 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	8.60	91.86
3	1.51	33.10	74.02
4	2.00	59.00	43.90
5	2.50	79.00	25.32
6	3.00	93.50	15.51
7	3.50	103.50	9.66
8	4.00	110.40	6.25
9	4.50	114.60	3.66
10	5.00	117.10	2.13
11	5.50	118.70	1.35
12	6.00	120.00	1.08
13	6.50	121.00	0.83
14	7.00	121.90	0.74
15	7.50	122.60	0.57
16	8.00	123.30	0.57
17	8.50	124.00	0.56
18	9.00	124.40	0.32
19	9.50	125.00	0.48
20	10.00	125.40	0.32
21	10.50	125.90	0.40
22	11.00	126.40	0.40

USER INPUT BLANK VALUE
BLANK VALUE = 5.38991 micrograms carbon
BLANK FACTOR = 5.38991 / 10.99982 = +4.9E-01 ug/min Carbon

SAMPLE RESULTS:
(126.4 - 5.388953)(1)/(1) = +1.210E+02 g/L Carbon
(126.4 - 5.388953)(1)/(1)(12) = +1.008E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

$\frac{121.0}{.0497} = 1.23E^{3}$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0 WHC-SD-WM-DP-154, REV. 0

Sample: 759 Date: 11/10/95 Time: 14:22:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.55 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	7.10	94.37
3	1.51	28.30	74.91
4	2.00	55.50	49.01
5	2.50	74.50	25.50
6	3.00	85.70	13.07
7	3.50	92.30	7.15
8	4.00	96.40	4.25
9	4.50	99.80	3.41
10	5.00	102.70	2.82
11	5.50	105.50	2.65
12	6.00	107.60	1.95
13	6.50	109.70	1.91
14	7.00	111.70	1.79
15	7.50	113.30	1.41
16	8.00	114.80	1.31
17	8.50	116.30	1.29
18	9.00	117.70	1.19
19	9.50	119.10	1.18
20	10.00	120.40	1.08
21	10.50	121.40	0.82
22	11.00	122.50	0.90

USER INPUT BLANK VALUE
BLANK VALUE = 17.04972 micrograms carbon
BLANK FACTOR = 17.04972 / 10.99982 = +1.5E+00 ug/min Carbon

SAMPLE RESULTS:
(122.5 - 17.04669)(1)/(1) = +1.055E+02 g/L Carbon
(122.5 - 17.04669)(1)/(1)(12) = +8.788E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

105.5 / .0987 = 1.07E3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 759 Date: 11/10/95 Time: 14:36:20

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .49 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.90	0.00
2	1.01	12.40	92.74
3	1.51	61.40	79.80
4	2.00	113.00	45.66
5	2.50	155.60	27.38
6	3.00	185.10	15.94
7	3.50	204.40	9.44
8	4.00	216.90	5.76
9	4.50	224.80	3.51
10	5.00	229.70	2.13
11	5.50	233.00	1.42
12	6.00	235.80	1.19
13	6.50	238.10	0.97
14	7.00	239.50	0.58
15	7.50	241.00	0.62
16	8.00	242.40	0.58
17	8.50	243.40	0.41
18	9.00	244.40	0.41
19	9.50	245.40	0.41
20	10.00	246.30	0.37
21	10.50	247.20	0.36
22	11.00	247.70	0.20

USER INPUT BLANK VALUE
BLANK VALUE = 5.38991 micrograms carbon
BLANK FACTOR = 5.38991 / 10.99982 = +4.9E-01 ug/min Carbon

SAMPLE RESULTS:
(247.7 - 5.390718)(1)/(1) = +2.423E+02 g/L Carbon
(247.7 - 5.390718)(1)/(1)(12) = +2.019E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

242.3 / .2057 = 1.18E3

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 759 Date: 11/10/95 Time: 14:50:28

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.55 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	6.80	94.12
3	1.50	30.90	77.99
4	2.00	72.30	57.26
5	2.50	110.00	34.27
6	3.00	136.00	19.12
7	3.50	152.60	10.88
8	4.00	162.70	6.21
9	4.50	169.90	4.24
10	5.00	175.70	3.30
11	5.50	180.60	2.71
12	6.00	184.80	2.27
13	6.50	188.10	1.75
14	7.00	190.70	1.36
15	7.50	193.00	1.19
16	8.00	195.20	1.13
17	8.50	197.20	1.01
18	9.00	199.00	0.90
19	9.50	201.30	1.14
20	10.00	203.10	0.89
21	10.50	205.00	0.93
22	11.00	206.40	0.68

USER INPUT BLANK VALUE
BLANK VALUE = 17.04972 micrograms carbon
BLANK FACTOR = 17.04972 / 10.99982 = +1.5E+00 ug/min Carbon

SAMPLE RESULTS:
(206.4 - 17.04943)(1)/(1) = +1.894E+02 g/L Carbon
(206.4 - 17.04943)(1)/(1)(12) = +1.578E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

189.4 / .2057 = 9.21 ε^2

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 759 + SPK Date: 11/10/95 Time: 15:02:51

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = .49 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.10	0.00
2	1.01	16.50	93.33
3	1.50	68.30	75.84
4	2.00	136.80	50.07
5	2.50	201.20	32.01
6	3.00	254.30	20.88
7	3.50	294.80	13.74
8	4.00	325.50	9.43
9	4.50	345.40	5.76
10	5.00	358.70	3.71
11	5.50	367.20	2.31
12	6.00	372.20	1.34
13	6.50	375.50	0.88
14	7.00	377.50	0.53
15	7.50	379.10	0.42
16	8.00	380.00	0.24
17	8.50	380.80	0.21
18	9.00	381.50	0.18
19	9.50	381.90	0.10
20	10.00	382.40	0.13
21	10.50	382.90	0.13
22	11.00	383.20	0.08

USER INPUT BLANK VALUE
BLANK VALUE = 5.38991 micrograms carbon
BLANK FACTOR = 5.38991 / 10.99982 = +4.9E-01 ug/min Carbon

SAMPLE RESULTS:
(383.2 - 5.390299)(1)/(1) = +3.778E+02 g/L Carbon
(383.2 - 5.390299)(1)/(1)(12) = +3.148E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

383.2
$\left[\left(\frac{126.4}{.0987}\right).2064 + 150\right]$ = 92.5% REC

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-154, REV. 0

Sample: 759 + SPK Date: 11/10/95 Time: 15:15:57

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 1.55 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	19.90	100.00
3	1.51	172.50	88.46
4	2.00	329.80	47.70
5	2.51	410.60	19.68
6	3.01	451.20	9.00
7	3.51	472.60	4.53
8	4.01	485.20	2.60
9	4.50	494.20	1.82
10	5.00	500.10	1.18
11	5.50	505.00	0.97
12	6.00	509.00	0.79
13	6.50	512.30	0.64
14	7.00	515.20	0.56
15	7.50	518.00	0.54
16	8.00	520.90	0.56
17	8.50	523.40	0.48
18	9.00	525.10	0.32
19	9.50	526.80	0.32
20	10.00	528.20	0.27
21	10.50	529.80	0.30
22	11.00	530.80	0.19

USER INPUT BLANK VALUE
BLANK VALUE = 17.04972 micrograms carbon
BLANK FACTOR = 17.04972 / 10.99982 = +1.5E+00 ug/min Carbon

SAMPLE RESULTS:
(530.8 - 17.05255)(1)/(1) = +5.137E+02 g/L Carbon
(530.8 - 17.05255)(1)/(1)(12) = +4.281E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{530.8}{\left[\left(\frac{122.5}{.0987}\right)-2064+300\right]} = 95.4\%$ REC

RADIOCHEMICAL ANALYSES

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 1198

Analyst: AKL **Instrument:** AB00 #18 WG27809 **Book #** 107652

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	.31			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	4	SAMPLE	S95T000787	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	4	SAMPLE	S95T000787	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T000787	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	5	DUP	S95T000787	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	6	SPK	S95T000787	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	7	SAMPLE	S95T000790	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	7	SAMPLE	S95T000790	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	8	DUP	S95T000790	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	8	DUP	S95T000790	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	9	SPK	S95T000790	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1198

G Lewis 4/26/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1198

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature			Date					Analyst Signature			Date	

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type	DETECTOR NUMBER		STANDARD	REPLICATE
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4239	4302
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA-01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		140.700	142.800
Sample #	Sample Concentration in µCi/L		3.03E-02	BOOK#
WORKLIST 1198	Replicate Concentration in µCi/L		3.07E-02	107B52
Instrument Code				
WB27809	Average Concentration in µCi/L		3.0478E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
04/26/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL in µCi/mL (Average) =	3.05E-05	DETECTION LEVEL	
RELATIVE COUNTING ERROR =	3.0%	1.61E-07 µCi/mL	

Data Entry by: Date: 04/28/95

Approved by: Date: 5/1/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		BLANK	REPLICATE
BLANK	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	6	5
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	2.000	2.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.302	2.302
Matrix	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.330	0.330
Sample #	Sample Concentration in µCi/g	<	1.56E-02	BOOK#
WORKLIST 1198	Replicate Concentration in µCi/g	<	1.56E-02	107B52
Instrument Code				
WB27809	Maximum Concentration in µCi/g	<	1.5565E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
04/26/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 1.56E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.				
RELATIVE COUNTING ERROR		=	80.0%	3.54E-02 µCi/g

Data Entry by: Date: 04/28/95

Approved by: Date: 5/1/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		18	18
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	31	180
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	2.000	2.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.302	2.302
Matrix	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.433	5.400
Sample #	Sample Concentration in µCi/g		2.04E-02	BOOK#
S95T787	Replicate Concentration in µCi/g		2.55E-01	107B52
Instrument Code				
WB27809	Average Concentration in µCi/g		1.3757E-01	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
04/26/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	1.38E-01	DETECTION LEVEL
				3.54E-02 µCi/g
RELATIVE COUNTING ERROR		=	105.5%	

Data Entry by:		Date:	04/28/95
Approved by:		Date:	5/1/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SAMPLE	REPLICATE
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	47	28
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	2.000	2.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.32	2.32
Matrix	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.967	0.333
Sample #	Sample Concentration in µCi/g		4.52E-02	BOOK#
S95T787	Replicate Concentration in µCi/g		1.56E-02	107B52
Instrument Code				
WB27809	Average Concentration in µCi/g		3.0421E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
04/26/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	3.04E-02	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	132.9%	3.51E-02 µCi/g

Data Entry by: [signature] Date: 04/28/95

Approved by: [signature] Date: 5/1/95

Form 508101_C Rev 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		18	18
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	51965	49190
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	2.000	2.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.302	2.302
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.37	36.37
S95T787	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	8.17E+01	7.73E+01
WB27809	AVERAGE or MAXIMUM µCi/g from FORM C		1.3757E-01	
Analyst	BOOK#		94B43	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
04/26/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
03:30 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 99.5%

Data Entry by:		Date:	28-Apr-95
Approved by:		Date:	5/1/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		18	18
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	26	18
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	2.000	2.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.01	2.01
Matrix	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.631	0.330
Sample #	Sample Concentration in µCi/g	<	3.41E-02	BOOK#
S95T790	Replicate Concentration in µCi/g	<	1.78E-02	107B52
Instrument Code				
WB27809	Maximum Concentration in µCi/g	<	3.4114E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
04/26/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.41E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				4.06E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: [signature] Date: 04/28/95

Approved by: [signature] Date: 5/1/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		18	18
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	30	26
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	2.000	2.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.99	1.99
Matrix	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.400	0.631
Sample #	Sample Concentration in µCi/g		2.18E-02	BOOK#
S95T790	Replicate Concentration in µCi/g	<	3.45E-02	107B52
Instrument Code				
WB27809	Maximum Concentration in µCi/g	<	3.4457E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
04/26/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.45E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				4.10E-02 µCi/g
RELATIVE COUNTING ERROR		=	162.5%	

Data Entry by: Date: 04/26/95

Approved by: Date: 5/11/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	47393	50180
WORKLIST 1198	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	2.000	2.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.01	2.01
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.37	36.37
S95T790	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	8.53E+01	9.03E+01
WB27809	AVERAGE or MAXIMUM µCi/g from FORM C		<3.4114E-2	
Analyst	BOOK#		94B43	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
04/26/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
03:30 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 96.1%

Data Entry by:	C.J. Cipiwa	Date:	28-Apr-95
Approved by:		Date:	5/1/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 1278

Analyst: JMV **Instrument:** AB00 16 **Book #** 107852

Method: LA-508-101 Rev/Mod A-2 D-2 SLF 1/3/96 WA27806

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	1.08			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	4	SAMPLE	S95T000760	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	4	SAMPLE	S95T000760	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	5	DUP	S95T000760	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	5	DUP	S95T000760	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000057	BX-109	6	SPK	S95T000760	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	7	SAMPLE	S95T000763	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	7	SAMPLE	S95T000763	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	8	DUP	S95T000763	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	8	DUP	S95T000763	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000057	BX-109	9	SPK	S95T000763	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		10	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		10	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		11	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1278

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		11	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		12	BLNK/BKG	-31			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	13	SAMPLE	S95T000766	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	13	SAMPLE	S95T000766	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	14	DUP	S95T000766	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	14	DUP	S95T000766	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000057	BX-109	15	SPK	S95T000766	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	16	SAMPLE	S95T000769	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	16	SAMPLE	S95T000769	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	17	DUP	S95T000769	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	17	DUP	S95T000769	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000057	BX-109	18	SPK	S95T000769	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1278

Analyst Signature Date 5-2-95

Analyst Signature Date 5 3 95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		16	16
STANDARD	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4353	3482
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		144.500	115.467
Sample #	Sample Concentration in µCi/L		3.09E-02	BOOK#
WRKLST#1278	Replicate Concentration in µCi/L		2.47E-02	107B52
Instrument Code				
WB27806	Average Concentration in µCi/L		2.7828E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
05/02/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	2.78E-05	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	3.3%	1.61E-07 µCi/mL

Data Entry by: Sharon Applegate Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			BLANK	REPLICATE
Type	DETECTOR NUMBER		16	16
BLANK	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4	35
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.054	2.054
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.330	0.567
Sample #	Sample Concentration in µCi/g	<	3.47E-02	BOOK#
S95T760	Replicate Concentration in µCi/g		5.97E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	5.9655E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.97E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				7.90E-02 µCi/g
RELATIVE COUNTING ERROR		=	83.9%	

Data Entry by: [signature] Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1278	TOTAL COUNTS	(TC)	23	15
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.6	0.6
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.054	2.054
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.519	0.330
S95T760	Sample Concentration in µCi/g	<	5.46E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	3.47E-02	
WB27806	Maximum Concentration in µCi/g	<	5.4620E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g (Maximum)	=	< 5.46E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.90E-02 µCi/g
RELATIVE COUNTING ERROR		=	375.3%	

Data Entry by: [signature] Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV C

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	23	18
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0504	2.0504
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.519	0.330
Sample #	Sample Concentration in µCi/g	<	5.47E-02	BOOK#
S95T760	Replicate Concentration in µCi/g	<	3.48E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	5.4716E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.47E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.92E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Shyam L Hyde Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	46137	48872
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.054	2.054
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
S95T760	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	1.62E+02	1.71E+02
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		<5.4620E-2	
Analyst	BOOK#		94B43	
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
05/02/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
02:00 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 93.2%

Data Entry by: Thyron D Hodgson Date: 03-May-95

Approved by: [signature] Date: 5/4/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1278	TOTAL COUNTS	(TC)	17	15
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.6	0.6
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.1732	2.1732
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.330	0.330
S95T763	Sample Concentration in µCi/g	<	3.28E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	3.28E-02	
WB27806	Maximum Concentration in µCi/g	<	3.2835E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g (Maximum) =	< 3.28E-02	
LESS Than Value was Determined from Lc.			7.47E-02 µCi/g
RELATIVE COUNTING ERROR	=	500.0%	

Data Entry by: [signature] Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	16	18
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.1128	2.1128
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.330	0.330
Sample #	Sample Concentration in µCi/g	<	3.38E-02	BOOK#
S95T763	Replicate Concentration in µCi/g	<	3.38E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.3774E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.38E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.68E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Shyam Lyle Date: 05/03/95
Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	Work List	AT or TB ?	Test Code	Matrix	Sample #	Instrument Code	Analyst	Date	Time
SPIKE	1278	AT	@ALPHA01	SOLID	S95T763	WB27806	JMV	05/02/95	02:00 PM

DETECTOR NUMBER		SPIKE	REPLICATE
DISH SIZE 1 , 2 , or 5	(MS)	16	16
TOTAL COUNTS	(TC)	2	2
COUNT TIME in MINUTES	(CT)	44160	50053
BACKGROUND in cpm	(BKG)	30	30
SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.6	0.6
SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1.000	1.000
DIGEST GRAMS of SOLIDS/L	(Dg/L)	101	101
SPIKE VOLUME in mL	(SVol)	2.1732	2.1732
SPIKE DILUTION FACTOR	(SDF)	0.100	0.100
SPIKE VALUE in µCi/L	(SVal)	1	1
INSTRUMENT EFFICIENCY FACTOR	(EFF)	36.372	36.372
SAMPLE + SPIKE µCi/g	(S+S)	0.2104	0.2104
AVERAGE or MAXIMUM µCi/g from FORM C		1.46E+02	1.66E+02
BOOK#		<3.2835E-2	
		94B43	

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 92.4%

Data Entry by: [signature] Date: 03-May-95

Approved by: [signature] Date: 5/4/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154. REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

				BLANK	REPLICATE
# Type	DETECTOR NUMBER			16	16
BLANK	DISH SIZE 1 , 2 , or 5	(MS)		2	2
# Work List	TOTAL COUNTS	(TC)		3	8
1278	COUNT TIME in MINUTES	(CT)		30	30
# AT or TB ?	BACKGROUND in cpm	(BKG)		0.6	0.6
AT	SAMPLE SIZE in mL	(SS)		1.000	1.000
# Test Code	DILUTION FACTOR	(DF)		101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)		1.854	1.854
# Matrix	EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.330	0.330
# Sample #	Sample Concentration in µCi/g		<	3.85E-02	BOOK#
S95T786	Replicate Concentration in µCi/g		<	3.85E-02	
# Instrument Code					
WB27806	Maximum Concentration in µCi/g		<	3.8488E-02	
# Analyst					
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG				
# Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
05/02/95					
# Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100				
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.85E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.				8.76E-02 µCi/g
RELATIVE COUNTING ERROR		=	99.9%	

Data Entry by: [signature] Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

				SAMPLE	REPLICATE
Type	DETECTOR NUMBER			16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)		2	2
Work List	TOTAL COUNTS	(TC)		14	14
1278	COUNT TIME in MINUTES	(CT)		30	30
AT or TB ?	BACKGROUND in cpm	(BKG)		0.6	0.6
AT	SAMPLE SIZE in mL	(SS)		1.000	1.000
Test Code	DILUTION FACTOR	(DF)		101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)		1.854	1.854
Matrix	EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.330	0.330
Sample #	Sample Concentration in µCi/g		<	3.85E-02	BOOK#
S95T766	Replicate Concentration in µCi/g		<	3.85E-02	
Instrument Code					
WB27806	Maximum Concentration in µCi/g		<	3.8488E-02	
Analyst					
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG				
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
05/02/95					
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100				
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

					DETECTION LEVEL
ALPHA TOTAL	in µCi/g	(Maximum) =	<	3.85E-02	
LESS Than Value was Determined from Lc.					8.76E-02 µCi/g
RELATIVE COUNTING ERROR		=		500.0%	

Data Entry by: Sharon Holdren Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	11	3
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9976	1.9976
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.330	0.330
Sample #	Sample Concentration in µCi/g	<	3.57E-02	BOOK#
S95T766	Replicate Concentration in µCi/g	<	3.57E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.5721E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.57E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.				8.13E-02 µCi/g
RELATIVE COUNTING ERROR		=	150.8%	

Data Entry by: Sharon L Hodgen Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	16	16
Work List	TOTAL COUNTS	(TC)	2	2
1278	COUNT TIME in MINUTES	(CT)	47771	44874
AT or TB ?	BACKGROUND in cpm	(BKG)	30	30
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.6	0.6
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1.000	1.000
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	101	101
Matrix	SPIKE VOLUME in mL	(SVol)	1.854	1.854
SOLID	SPIKE DILUTION FACTOR	(SDF)	0.100	0.100
Sample #	SPIKE VALUE in µCi/L	(SVal)	1	1
S95T766	INSTRUMENT EFFICIENCY FACTOR	(EFF)	36.372	36.372
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	0.2104	0.2104
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		1.86E+02	1.74E+02
Analyst	BOOK#		<3.8488E-2	
JMV			94B43	
Date				
05/02/95				
Time				
02:00 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 90.9%

Data Entry by: [signature] Date: 03-May-95

Approved by: [signature] Date: 5/4/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	15	33
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0012	2.0012
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.330	0.500
Sample #	Sample Concentration in µCi/g	<	3.57E-02	BOOK#
S95T769	Replicate Concentration in µCi/g		5.40E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	5.4026E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.40E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				8.11E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: [signature] Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SAMPLE	REPLICATE
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	22	22
1278	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.6	0.6
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9716	1.9716
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.481	0.481
Sample #	Sample Concentration in µCi/g	<	5.28E-02	BOOK#
S95T759	Replicate Concentration in µCi/g	<	5.28E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	5.2773E-02	
Analyst				
JMV	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/02/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.28E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				
RELATIVE COUNTING ERROR		=	500.0%	8.23E-02 µCi/g

Data Entry by: [signature] Date: 05/03/95

Approved by: [signature] Date: 5/4/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	16	16
Work List	TOTAL COUNTS	(TC)	2	2
1278	COUNT TIME in MINUTES	(CT)	46883	46988
AT or TB ?	BACKGROUND in cpm	(BKG)	30	30
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.6	0.6
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1.000	1.000
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	101	101
Matrix	SPIKE VOLUME in mL	(SVol)	2.0012	2.0012
SOLID	SPIKE DILUTION FACTOR	(SDF)	0.100	0.100
Sample #	SPIKE VALUE in µCi/L	(SVal)	1	1
S95T769	INSTRUMENT EFFICIENCY FACTOR	(EFF)	36.372	36.372
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	0.2104	0.2104
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		1.69E+02	1.69E+02
Analyst	BOOK#		<5.4026E-2	
JMV			94B43	
Date				
05/02/95				
Time				
02:00 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 92.1%

Data Entry by: [signature] Date: 03-May-95

Approved by: [signature] Date: 5/4/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 1285

Analyst: JLM **Instrument:** AB00 14 (JB27807) **Book #** 107B52

Method: LA-508-101 Rev/Mod A-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	.43			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	4	SAMPLE	S95T000772	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	4	SAMPLE	S95T000772	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	5	DUP	S95T000772	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	5	DUP	S95T000772	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000057	BX-109	6	SPK	S95T000772	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	7	SAMPLE	S95T000775	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	7	SAMPLE	S95T000775	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	8	DUP	S95T000775	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	8	DUP	S95T000775	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000057	BX-109	9	SPK	S95T000775	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1285

Shannon Wall 05-05-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1285

GROUP	PROJECT	S TYPE	SAMPLE#	R A -------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date			Analyst Signature			Date	

Heather Mix 5-4-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		14	14
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4272	3664
1285	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		141.900	121.633
Sample #	Sample Concentration in µCi/L		2.81E-02	BOOK#
WRKLST#1285	Replicate Concentration in µCi/L		2.41E-02	107B52
Instrument Code				
WB27807	Average Concentration in µCi/L		2.6101E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
05/04/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	2.61E-05	DETECTION LEVEL
				1.37E-07 µCi/mL
RELATIVE COUNTING ERROR		=	3.3%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

641

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		14	14
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
1285	TOTAL COUNTS	(TC)	7	6
AT or 18 ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.5	0.5
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.002	2.002
SOLID	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.301	0.301
S95T772	Sample Concentration in µCi/g	<	3.01E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	3.01E-02	
WB27807	Maximum Concentration in µCi/g	<	3.0105E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.01E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.				6.93E-02 µCi/g
RELATIVE COUNTING ERROR		=	114.9%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		14	14
	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	19	12
1285	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.002	2.002
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.454	0.301
Sample #	Sample Concentration in µCi/g	<	4.54E-02	BOOK#
S95T772	Replicate Concentration in µCi/g	<	3.01E-02	
Instrument Code				
WB27807	Maximum Concentration in µCi/g	<	4.5374E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL in µCi/g (Maximum) =	< 4.54E-02		
LESS THAN Value was Determined from Rmax.			6.93E-02 µCi/g
RELATIVE COUNTING ERROR =	500.0%		

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		14	14
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	21	17
1285	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0032	2.0032
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.530	0.378
Sample #	Sample Concentration in µCi/g	<	5.29E-02	BOOK#
S95T772	Replicate Concentration in µCi/g	<	3.77E-02	
Instrument Code				
WB27807	Maximum Concentration in µCi/g	<	5.2933E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g . = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.29E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				6.92E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		14	14
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	45944	52385
1285	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.002	2.002
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
S95T772	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	1.53E+02	1.74E+02
WB27807	AVERAGE or MAXIMUM µCi/g from FORM C		<4.5374E-2	
Analyst	BOOK#		94B43	
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
05/04/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
02:30 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 89.2%

Data Entry by: [signature] Date: 05-May-95

Approved by: [signature] Date: 5/5/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		14	14
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	7	5
1285	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.976	1.976
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.301	0.301
Sample #	Sample Concentration in µCi/g	<	3.05E-02	BOOK#
S95T775	Replicate Concentration in µCi/g	<	3.05E-02	
Instrument Code				
WB27807	Maximum Concentration in µCi/g	<	3.0501E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.05E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.				7.02E-02 µCi/g
RELATIVE COUNTING ERROR		=	114.9%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
DUPLICATE	DETECTOR NUMBER		14	14
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1285	TOTAL COUNTS	(TC)	29	30
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.5	0.5
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9776	1.9776
SOLID	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.467	0.500
S95T775	Sample Concentration in µCi/g		4.72E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g		5.06E-02	
WB27807	Average Concentration in µCi/g		4.8897E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	4.89E-02	DETECTION LEVEL
				7.01E-02 µCi/g
RELATIVE COUNTING ERROR		=	92.9%	

Data Entry by: Sharon Hyde Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	54051	61399
1285	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.976	1.976
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
S95T775	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	1.82E+02	2.07E+02
WB27807	AVERAGE or MAXIMUM µCi/g from FORM C		<3.0501E-2	
Analyst	BOOK#		94B43	
TLM				
Date				
05/04/95				
Time				
02:30 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 104.8%

Data Entry by: [signature] Date: 05-May-95

Approved by: [signature] Date: 5/5/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 1316

Analyst: TLM **Instrument:** AB00 16 WB27806 **Book #** 107B52

Method: LA-508-101 Rev/Mod A-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	.20			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	4	SAMPLE	S95T000778	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	4	SAMPLE	S95T000778	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	5	DUP	S95T000778	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	5	DUP	S95T000778	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000057	BX-109	6	SPK	S95T000778	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	7	SAMPLE	S95T000781	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	7	SAMPLE	S95T000781	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	8	DUP	S95T000781	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	8	DUP	S95T000781	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	9	SPK	S95T000781	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1316

Sharon Hall, QA 5-5-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1316

GROUP	PROJECT	S TYPE	SAMPLE#	R A -------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date			Analyst Signature			Date	
Pamela Mix		5/4/95							

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		16	16
STANDARD	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4540	3891
1316	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		150.833	129.200
Sample #	Sample Concentration in µCi/L		3.23E-02	BOOK#
WRKLST#1316	Replicate Concentration in µCi/L		2.77E-02	107B52
Instrument Code				
WB27806	Average Concentration in µCi/L		2.9977E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
05/04/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:10 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	3.00E-05	DETECTION LEVEL
				1.48E-07 µCi/mL
RELATIVE COUNTING ERROR		=	3.2%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1316	TOTAL COUNTS	(TC)	6	0
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.5	0.5
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.8624	1.8624
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.301	0.301
S95T778	Sample Concentration in µCi/g	<	3.50E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	3.50E-02	
WB27806	Maximum Concentration in µCi/g	<	3.4976E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:10 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.50E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.				8.05E-02 µCi/g
RELATIVE COUNTING ERROR		=	99.8%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SAMPLE	REPLICATE
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	12	10
1316	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.8624	1.8624
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.301	0.301
Sample #	Sample Concentration in µCi/g	<	3.50E-02	BOOK#
S95T778	Replicate Concentration in µCi/g	<	3.50E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.4976E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:10 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum)	=	< 3.50E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.					8.05E-02 µCi/g
RELATIVE COUNTING ERROR			=	500.0%	

Data Entry by:		Date:	05/05/95
Approved by:		Date:	5/5/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
DUPLICATE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1316	TOTAL COUNTS	(TC)	9	15
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.5	0.5
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9512	1.9512
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.301	0.301
S95T778	Sample Concentration in µCi/g	<	3.34E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	3.34E-02	
WB27806	Maximum Concentration in µCi/g	<	3.3384E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:10 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.34E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.68E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SPIKE	REPLICATE
SPIKE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1316	TOTAL COUNTS	(TC)	42409	49125
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.5	0.5
Test Code	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
@ALPHA01	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.8624	1.8624
SOLID	SPIKE VOLUME in mL	(SVol)	0.100	0.100
Sample #	SPIKE DILUTION FACTOR	(SDF)	1	1
S95T778	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
Instrument Code	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
WB27806	SAMPLE + SPIKE µCi/g	(S+S)	1.64E+02	1.90E+02
Analyst	AVERAGE or MAXIMUM µCi/g from FORM C		<3.4976E-2	
TLM	BOOK#		94B43	
Date	Rs (Sample Count Rate) = (TC / CT) - BKG			
05/04/95	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
Time	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
01:10 PM				

RESULT AVG. PERCENT SPIKE RECOVERY = 89.8%

Data Entry by: [signature] Date: 05-May-95

Approved by: [signature] Date: 5/5/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type				SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER			16	16
Work List	DISH SIZE 1, 2, or 5	(MS)		2	2
1316	TOTAL COUNTS	(TC)		23	20
AT or TB ?	COUNT TIME in MINUTES	(CT)		30	30
AT	BACKGROUND in cpm	(BKG)		0.5	0.5
Test Code	SAMPLE SIZE in mL	(SS)		1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)		101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)		2.054	2.054
SOLID	EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.606	0.492
S95T781	Sample Concentration in µCi/g		<	6.38E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g		<	5.18E-02	
WB27806	Maximum Concentration in µCi/g		<	6.3766E-02	
Analyst					
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG				
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
05/04/95					
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100				
01:10 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 6.38E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.30E-02 µCi/g
RELATIVE COUNTING ERROR		=	231.9%	

Data Entry by: [signature] Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	19	20
1316	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0924	2.0924
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.454	0.492
Sample #	Sample Concentration in µCi/g	<	4.69E-02	BOOK#
S95T781	Replicate Concentration in µCi/g	<	5.08E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	5.0850E-02	
Analyst				
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/04/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:10 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.08E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.16E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Steven L. Lipp Date: 05/05/95

Approved by: [signature] Date: 5/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	46857	44502
1316	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.054	2.054
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
S95T781	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	1.64E+02	1.56E+02
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		<6.3766E-2	
Analyst	BOOK#		94B43	
TLM	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
05/04/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
01:10 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 89.6%

Data Entry by: Shirley Taylor Date: 05-May-95

Approved by: [signature] Date: 5/5/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 1344

Analyst: AKL **Instrument:** AB00 16 WB27806 **Book #** 107652

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	.43			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	4	SAMPLE	S95T000837	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	4	SAMPLE	S95T000837	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T000837	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	5	DUP	S95T000837	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	6	SPK	S95T000837	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	7	SAMPLE	S95T000840	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	7	SAMPLE	S95T000840	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	8	DUP	S95T000840	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	8	DUP	S95T000840	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	9	SPK	S95T000840	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1344

AJ Lewis 5-9-95 Sharon L Walker 5-10-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1344

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date				Analyst Signature			Date	

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type			STANDARD	REPLICATE
STANDARD	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
1344	TOTAL COUNTS	(TC)	3502	3657
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.5	0.5
Test Code	SAMPLE SIZE in mL	(SS)	10.000	10.000
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST DILUTION FACTOR	(DDF)	1	1
LIQUID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		116.233	121.400
WORKLIST#1344	Sample Concentration in µCi/L		2.49E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/L		2.60E-02	107B52
WB27806	Average Concentration in µCi/L		2.5438E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
05/09/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
09:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	2.54E-05	DETECTION LEVEL
				1.48E-07 µCi/mL
RELATIVE COUNTING ERROR		=	3.3%	

Data Entry by:		Date:	05/10/95
Approved by:		Date:	5/11/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

				BLANK	REPLICATE
Type	DETECTOR NUMBER			16	16
BLANK	DISH SIZE 1 , 2 , or 5	(MS)		2	2
Work List	TOTAL COUNTS	(TC)		11	2
1344	COUNT TIME in MINUTES	(CT)		30	30
AT or TB ?	BACKGROUND in cpm	(BKG)		0.5	0.5
AT	SAMPLE SIZE in mL	(SS)		1.000	1.000
Test Code	DILUTION FACTOR	(DF)		51	51
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)		2.0996	2.0996
Matrix	EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.301	0.301
Sample #	Sample Concentration in µCi/g		<	1.57E-02	BOOK#
S95T837	Replicate Concentration in µCi/g		<	1.57E-02	
Instrument Code					
WB27806	Maximum Concentration in µCi/g		<	1.5666E-02	
Analyst					
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG				
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
05/09/95					
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100				
09:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

				DETECTION LEVEL
ALPHA TOTAL	in µCi/g (Maximum)	=	< 1.57E-02	
LESS Than Value was Determined from Lc.				
RELATIVE COUNTING ERROR		=	249.9%	3.60E-02 µCi/g

Data Entry by: Sharon L Hafer Date: 05/10/95

Approved by: [signature] Date: 5/11/95

Form 508101_C Rev. 1.3

6C2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	24	27
1344	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	51	51
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0996	2.0996
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.643	0.400
Sample #	Sample Concentration in µCi/g	<	3.35E-02	BOOK#
S95T837	Replicate Concentration in µCi/g		2.08E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.3463E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/09/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
09:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.35E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				3.60E-02 µCi/g
RELATIVE COUNTING ERROR		=	136.0%	

Data Entry by: [signature] Date: 05/10/95

Approved by: [signature] Date: 5/11/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SAMPLE	REPLICATE
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	16	16
Work List	TOTAL COUNTS	(TC)	2	2
1344	COUNT TIME in MINUTES	(CT)	31	32
AT or TB ?	BACKGROUND in cpm	(BKG)	30	30
AT	SAMPLE SIZE in mL	(SS)	0.5	0.5
Test Code	DILUTION FACTOR	(DF)	1.000	1.000
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	51	51
Matrix	EFFICIENCY FACTOR	(EFF)	2.0992	2.0992
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.2104	0.2104
Sample #	Sample Concentration in µCi/g		0.533	0.567
S95T837	Replicate Concentration in µCi/g		2.77E-02	BOOK#
Instrument Code			2.95E-02	
WB27806	Average Concentration in µCi/g		2.8608E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/09/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
09:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	2.86E-02	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	83.1%	3.61E-02 µCi/g

Data Entry by: [signature] Date: 05/10/95

Approved by: [signature] Date: 5/11/95

Form 508101_C Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		16	16
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	42074	40029
1344	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	51	51
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0996	2.0996
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
S95T837	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	7.29E+01	6.94E+01
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		<3.3463E-2	
Analyst	BOOK#		94B43	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
05/09/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
09:30 AM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 80.5%

Data Entry by:	Steven L Wright	Date:	10-May-95
Approved by:	[signature]	Date:	5/11/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	16	8
1344	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.8884	1.8884
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.340	0.301
Sample #	Sample Concentration in µCi/g	<	3.89E-02	BOOK#
S95T840	Replicate Concentration in µCi/g	<	3.45E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.8882E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/09/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
09:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.89E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				
RELATIVE COUNTING ERROR		=	500.0%	7.94E-02 µCi/g

Data Entry by: Sharon Platt Date: 05/10/95

Approved by: [signature] Date: 5/11/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	10	10
1344	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.8936	1.8936
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.301	0.301
Sample #	Sample Concentration in µCi/g	<	3.44E-02	BOOK#
S95T840	Replicate Concentration in µCi/g	<	3.44E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.4400E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/09/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
09:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL in µCi/g (Maximum) =	< 3.44E-02		
LESS Than Value was Determined from Lc.			7.92E-02 µCi/g
RELATIVE COUNTING ERROR =	196.0%		

Data Entry by: Shyron L Mayer Date: 05/10/95

Approved by: [signature] Date: 5/11/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		16	16
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	42538	46811
1344	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.8884	1.8884
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
S95T840	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	1.62E+02	1.79E+02
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		<3.8882E-2	
Analyst	BOOK#		94B43	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
05/09/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
09:30 AM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 87.6%

Data Entry by: [signature] Date: 10-May-95

Approved by: [signature] Date: 5/11/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 1345

Analyst: AKL **Instrument:** AB00 Det. #16 WB27806 **Book #** 107052

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	.13			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	4	SAMPLE	S95T000848	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	4	SAMPLE	S95T000848	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T000848	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	5	DUP	S95T000848	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	6	SPK	S95T000848	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	7	SAMPLE	S95T000851	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	7	SAMPLE	S95T000851	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	8	DUP	S95T000851	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	8	DUP	S95T000851	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	9	SPK	S95T000851	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1345

A Lewis 5-8-95 Sharon Hladek 5-9-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1345

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date					Analyst Signature			Date	

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type		STANDARD	REPLICATE
STANDARD	DETECTOR NUMBER	16	16
Work List	DISH SIZE 1, 2, or 5 (MS)	2	2
1345	TOTAL COUNTS (TC)	3961	3971
AT or TB ?	COUNT TIME in MINUTES (CT)	30	30
AT	BACKGROUND in cpm (BKG)	0.8	0.8
Test Code	SAMPLE SIZE in mL (SS)	10.000	10.000
@ALPHA01	DILUTION FACTOR (DF)	1	1
Matrix	DIGEST DILUTION FACTOR (DDF)	1	1
LIQUID	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	131.233	131.567
WRKLST#1345	Sample Concentration in µCi/L	2.81E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/L	2.82E-02	107B52
WB27806	Average Concentration in µCi/L	2.8132E-02	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)		
05/08/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L		
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100		
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL in µCi/mL (Average) =	2.81E-05		
RELATIVE COUNTING ERROR =	3.1%		1.83E-07 µCi/mL

Data Entry by: Sharon L Hyde Date: 05/09/95

Approved by: [signature] Date: 5/9/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
1345	TOTAL COUNTS	(TC)	4	2
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.8	0.8
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	67.667	67.667
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9276	1.9276
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.381	0.381
S95T848	Sample Concentration in µCi/g	<	2.86E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	2.86E-02	
WB27806	Maximum Concentration in µCi/g	<	2.8638E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/08/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

				DETECTION LEVEL
ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.86E-02	
LESS Than Value was Determined from Lc.				6.41E-02 µCi/g
RELATIVE COUNTING ERROR		=	51.9%	

Data Entry by: [signature] Date: 05/09/95

Approved by: [signature] Date: 5/9/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	26	28
1345	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.8	0.8
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	67.667	67.667
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9276	1.9276
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.456	0.530
Sample #	Sample Concentration in µCi/g	<	3.42E-02	BOOK#
S95T848	Replicate Concentration in µCi/g	<	3.98E-02	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.9828E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/08/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.98E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				6.41E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Sharon Hatch Date: 05/09/95

Approved by: [signature] Date: 5/9/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
DUPLICATE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1345	TOTAL COUNTS	(TC)	19	25
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.8	0.8
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	67.667	67.667
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.8924	1.8924
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.381	0.418
S95T848	Sample Concentration in µCi/g	<	2.92E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	3.20E-02	
WB27806	Maximum Concentration in µCi/g	<	3.2025E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/08/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.20E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				6.53E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Shayne Schlatter Date: 05/09/95

Approved by: [signature] Date: 5/9/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SPIKE	REPLICATE
SPIKE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1345	TOTAL COUNTS	(TC)	36583	41830
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.8	0.8
Test Code	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
@ALPHA01	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	67.667	67.667
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9276	1.9276
SOLID	SPIKE VOLUME in mL	(SVol)	0.100	0.100
Sample #	SPIKE DILUTION FACTOR	(SDF)	1	1
S95T848	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
Instrument Code	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
WB27806	SAMPLE + SPIKE µCi/g	(S+S)	9.16E+01	1.05E+02
Analyst	AVERAGE or MAXIMUM µCi/g from FORM C		<3.9828E-2	
AKL	BOOK#		94B43	
Date				
05/08/95				
Time				
01:30 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 76.9%

Data Entry by [signature] Date: 09-May-95

Approved by: [signature] Date: 5/9/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type				SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER			16	16
Work List	DISH SIZE 1, 2, or 5	(MS)		2	2
1345	TOTAL COUNTS	(TC)		24	15
AT or TB ?	COUNT TIME in MINUTES	(CT)		30	30
AT	BACKGROUND in cpm	(BKG)		0.8	0.8
Test Code	SAMPLE SIZE in mL	(SS)		1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)		51	51
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)		2.0832	2.0832
SOLID	EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.381	0.381
S95T851	Sample Concentration in µCi/g		<	2.00E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g		<	2.00E-02	
WB27806	Maximum Concentration in µCi/g		<	1.9972E-02	
Analyst					
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG				
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
05/08/95					
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100				
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g (Maximum) =	< 2.00E-02	
LESS Than Value was Determined from Lc.			4.47E-02 µCi/g
RELATIVE COUNTING ERROR	=	500.0%	

Data Entry by: [signature] Date: 05/09/95

Approved by: [signature] Date: 5/9/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
DUPLICATE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
1345	TOTAL COUNTS	(TC)	21	11
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.8	0.8
Test Code	SAMPLE SIZE in mL	(SS)	1.000	1.000
@ALPHA01	DILUTION FACTOR	(DF)	51	51
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0784	2.0784
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.381	0.381
S95T851	Sample Concentration in µCi/g	<	2.00E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	2.00E-02	
WB27806	Maximum Concentration in µCi/g	<	2.0018E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
05/08/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

				DETECTION LEVEL
ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.00E-02	
LESS Than Value was Determined from Lc.				4.48E-02 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Thomas L. Gilbert Date: 05/09/95

Approved by: Date: 5/9/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		16	16
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	39617	39878
1345	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.8	0.8
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	51	51
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.0832	2.0832
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	36.372	36.372
S95T851	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	6.92E+01	6.96E+01
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		<1.9972E-2	
Analyst	BOOK#		94B43	
AKL				
Date				
05/08/95				
Time				
01:30 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 77.9%

Data Entry by: [signature] Date: 09-May-95

Approved by: [signature] Date: 5/9/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 2128

Analyst: S. C L. **Instrument:** AB00 16 **Book #** 140B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	0.59			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T001471	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000059	BX-109	5	DUP	S95T001471	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000059	BX-109	6	SPK	S95T001471	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2128

Sue C Lai 8-30-95
Analyst Signature **Date**

Sharon L Holder 9.5.95
Analyst Signature **Date**

Data Entry Comments:

spike: 112B43

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type			STANDARD	REPLICATE
STANDARD	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2128	TOTAL COUNTS	(TC)	4307	4439
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.37	0.37
Test Code	SAMPLE SIZE in mL	(SS)	10.000	10.000
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST DILUTION FACTOR	(DDF)	1	1
LIQUID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		143.197	147.597
WORKLIST#2128	Sample Concentration in µCi/L		3.07E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/L		3.16E-02	140B52
WB27806	Average Concentration in µCi/L		3.1128E-02	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/30/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	3.11E-05	DETECTION LEVEL
				1.30E-07 µCi/mL
RELATIVE COUNTING ERROR		=	3.0%	

Data Entry by: Theresa J. Hall Date: 08/31/95

Approved by: [signature] Date: 9/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2128	TOTAL COUNTS	(TC)	7	6
AT or IS ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.37	0.37
Test Code	SAMPLE SIZE in mL	(SS)	0.050	0.050
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0436	1.0436
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.259	0.259
S95T1471	Sample Concentration in µCi/g	<	1.06E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	1.06E-02	
WB27806	Maximum Concentration in µCi/g	<	1.0633E-02	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/30/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL in µCi/g (Maximum) =	< 1.06E-02	DETECTION LEVEL
LESS Than Value was Determined from Lc.		2.50E-02 µCi/g
RELATIVE COUNTING ERROR =	203.4%	

Data Entry by: Sharon Schilde Date: 08/31/95

Approved by: [signature] Date: 9/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2128	TOTAL COUNTS	(TC)	31	29
At or 18 ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.37	0.37
Test Code	SAMPLE SIZE in mL	(SS)	0.050	0.050
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0436	1.0436
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.663	0.597
S95T1471	Sample Concentration in µCi/g		2.72E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g		2.45E-02	
WB27806	Average Concentration in µCi/g		2.5849E-02	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/30/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	2.58E-02	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	69.3%	2.50E-02 µCi/g

Data Entry by: Sharon L Yabsley Date: 08/31/95
Approved by: [signature] Date: 9/5/95
Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	39	24
2128	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.37	0.37
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0608	1.0608
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.930	0.430
Sample #	Sample Concentration in µCi/g		3.75E-02	BOOK#
S95T1471	Replicate Concentration in µCi/g		1.74E-02	
Instrument Code				
WB27806	Average Concentration in µCi/g		2.7448E-02	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/30/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	2.74E-02	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	90.0%	2.46E-02 µCi/g

Data Entry by: Shawn Hall Date: 08/31/95

Approved by: [signature] Date: 8/31 SEE 9/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPIKE	DISH SIZE 1, 2, or 5	(MS)	16	16
Work List	TOTAL COUNTS	(TC)	2	2
2128	COUNT TIME in MINUTES	(CT)	61775	56160
AT or TB ?	BACKGROUND in cpm	(BKG)	30	30
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.37	0.37
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	0.050	0.050
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1	1
Matrix	SPIKE VOLUME in mL	(SVol)	1.0436	1.0436
SOLID	SPIKE DILUTION FACTOR	(SDF)	0.100	0.100
Sample #	SPIKE VALUE in µCi/L	(SVal)	1	1
S95T1471	INSTRUMENT EFFICIENCY FACTOR	(EFF)	44.778	44.778
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	0.2104	0.2104
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		8.45E+01	7.68E+01
Analyst	BOOK#		2.5849E-02	
SCL			112B43	
Date				
08/30/95				
Time				
03:00 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 93.9%

Data Entry by: Shyam J. Kalra Date: 31-Aug-95

Approved by: [signature] Date: 9/5/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 4593

Analyst: ALC **Instrument:** AB00 15 **Book #** 14856

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		1	STD				@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		2	BLNK				@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		2	BLNK				@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		3	BLNK/BKG		19		@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000059	BX-109	4	SAMPLE	S95T000783	0		@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000059	BX-109	4	SAMPLE	S95T000783	0		@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T000783	0		@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000059	BX-109	5	DUP	S95T000783	0		@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000059	BX-109	6	SPK	S95T000783	0		@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000059	BX-109	7	SAMPLE	S95T000853	0		@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000059	BX-109	7	SAMPLE	S95T000853	0		@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000059	BX-109	8	DUP	S95T000853	0		@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000059	BX-109	8	DUP	S95T000853	0		@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000059	BX-109	9	SPK	S95T000853	0		@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL

Final page for worklist # 4593

G Lewis 1/11/96

C.J. Quiroz 1/12/96

1/12/96

Data Entry Comments:

The RPD For 783 is acceptable due to low sample alpha activity. 1/16/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-154, REV. 0

LABCORE Completed Worklist Report for Worklist# 4593

Analyst: akl **Instrument:** AB15 **Book#** _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	STD		0		@ALPHA01 ALPHA01	LIQUID	1.54E-05	1.30E-5	84.420	% Recovery
1	STD		0		@ALPHA01 ALPHA01E	LIQUID	1.00	4.34E+00	4.340	% Ct. Error
2	BLNK		0		@ALPHA01 ALPHA01	LIQUID	1	<4.11E-4		uCi/mL
2	BLNK		0		@ALPHA01 ALPHA01E	LIQUID	1.00	1.55E+02	155.000	% Ct. Error
3	BLNK/BKG		0		@ALPHA01 ALPHA01	LIQUID	1.00E+00	2.75E+00	2.750	uCi/mL
4	SAMPLE	S95T000783	0		@ALPHA01 ALPHA01	LIQUID	N/A	8.09E-04	4.220e-004	uCi/mL
4	SAMPLE	S95T000783	0		@ALPHA01 ALPHA01E	LIQUID	N/A	6.04E+01	0.000	% Ct. Error
5	DUP	S95T000783	0		@ALPHA01 ALPHA01	LIQUID	8.09E-4	4.27E-4	61.810	RPD
5	DUP	S95T000783	0		@ALPHA01 ALPHA01E	LIQUID	1.00	9.62E+01	96.200	% Ct. Error
6	SPK	S95T000783	0		@ALPHA01 ALPHA01	LIQUID	3.92E-02	3.61E-02	92.090	% Recovery
7	SAMPLE	S95T000853	0		@ALPHA01 ALPHA01	LIQUID	N/A <	6.95E-05	8.450e-005	uCi/mL
7	SAMPLE	S95T000853	0		@ALPHA01 ALPHA01E	LIQUID	N/A	5.00E+02	0.000	% Ct. Error
8	DUP	S95T000853	0		@ALPHA01 ALPHA01	LIQUID	<6.95E-5	8.54E-5		RPD
8	DUP	S95T000853	0		@ALPHA01 ALPHA01E	LIQUID	1.00	8.26E+01	82.600	% Ct. Error
9	SPK	S95T000853	0		@ALPHA01 ALPHA01	LIQUID	3.92E-02	3.43E-02	87.500	% Recovery

Final page for worklist# 4593

Analyst Signature Date

Analyst Signature Date

Reviewer Signature 1/22/96 Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2) STANDARD

Type	DETECTOR NUMBER		STANDARD	REPLICATE
STD	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	2053	2092
4593	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER	(Std BN)	14B56	14B56
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		68.263	69.563
Batch Number	Standard Value in µCi/mL		1.54E-05	
96000001	Concentration in µCi/L	=	1.29E-02	
Rerun	Replicate Concentration in µCi/L	=	1.32E-02	
0	AVERAGE CONCENTRATION in µCi/L	=	1.3043E-02	

Sample Prep: N/A
Sample #: WL#4593
Instrument Code: WB26872
Prepared By: CJO
Chemist: SLF
Analyst: AKL
Date Complete: 01/12/96
Analysis Date: 01/11/96
Analysis Time: 12:00 PM
Sample Point: BX-109

Rs (Sample Count Rate) = (TC / CT) - BKG
ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)
ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L
Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
Detection Levels and Less Than Values are determined from Procedure LA-508-002.

			DETECTION LEVEL
ALPHA TOTAL CONCENTRATION in µCi/mL	1.30E-05		
			8.37E-08 µCi/mL
RELATIVE COUNTING ERROR	=	4.3%	

Analyst: CJO Date: 12-Jan-96
Signature of Chemist: SLF Date: 1/16/96

STANDARD.WB1 Rev. 1.0 5081D1ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) LIQUIDS

Type	DETECTOR NUMBER		BLNK	REPLICATE
BLNK	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	18	10
4593	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	0.200	0.200
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.430	0.377

Batch Number			
96000001	Blank Concentration in µCi/L		4.11E-01
Rerun	Replicate Concentration in µCi/L	<	3.60E-01
0	Maximum Concentration in µCi/L	<	4.1099E-01

Sample Prep	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG
Sample #	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)
WL#4593	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
CJO	
Chemist	v RESULTS v

SLF	ALPHA TOTAL	in µCi/m	< 4.11E-04	DETECTION LEVEL
Analyst				
AKL	LESS THAN Value was Determined from Rs.			4.22E-04 µCi/mL
Date Complete				
01/12/96	RELATIVE COUNTING ERROR		155.4%	
Analysis Date				
01/11/96				
Analysis Time				
12:00 PM				
Sample Point				
BX-109				

Analyst:		CJO	Date: 12-Jan-96
Signature of Chemist:		SLF	Date: 1/16/96

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) LIQUIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		15	15
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	39	22
4593	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	0.200	0.200
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.130	0.563

Batch Number		
96000001	Blank Concentration in µCi/L	1.08E+00
Rerun	Replicate Concentration in µCi/L	5.38E-01
0	Average Concentration in µCi/L	8.0923E-01

Sample Prep	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG
Sample #	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)
S95T000783	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
CJO	
Chemist	v RESULTS v

SLF	ALPHA TOTAL	in µCi/m	8.09E-04	DETECTION LEVEL
Analyst				
AKL				
Date Complete				4.22E-04 µCi/mL
01/12/96	RELATIVE COUNTING ERROR		60.4%	
Analysis Date				
01/11/96				
Analysis Time				
12:00 PM				
Sample Point				
BX-109				

Analyst:		CJO	Date: 12-Jan-96
Signature of Chemist		SLF	Date: 1/16/96

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) LIQUIDS

Type			DUP	REPLICATE
DUP	DETECTOR NUMBER		15	15
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
4593	GROSS COUNTS	(GC)	23	14
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.17	0.17
Test Code	SAMPLE SIZE in mL	(SS)	0.200	0.200
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST DILUTION FACTOR	(DDF)	1	1
LIQUID	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.597	0.297
96000001	Blank Concentration in µCi/L		5.70E-01	
Rerun	Replicate Concentration in µCi/L		2.84E-01	
0	Average Concentration in µCi/L		4.2692E-01	
Sample Prep				
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG			
Sample #	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
S95T000783	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
CJO				
Chemist			v RESULTS v	
SLF	ALPHA TOTAL	in µCi/m	4.27E-04	DETECTION LEVEL
Analyst				
AKL				4.22E-04
Date Complete	RELATIVE COUNTING ERROR		96.2%	µCi/mL
01/12/96				
Analysis Date				
01/11/96				
Analysis Time				
12:00 PM				
Sample Point				
BX-109				

Analyst:		CJO	Date: 12-Jan-96
Signature of Chemist:		SLF	Date: 1/16/96

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPK	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	56849	57519
4593	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.200	0.200
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR	(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER	(Spk BN)	119B43	119B43
96000001	SPIKE VALUE in µCi/mL	(SVal)	3.9211E-02	3.9211E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.238	0.238
0	SAMPLE + SPIKE µCi/mL	(S+S)	1.81E+00	1.83E+00
Sample Prep	AVERAGE or MAXIMUM µCi/mL in SAMPLE		8.0923E-04	

N/A
Sample #
S95T000783
Instrument Code
WB26872
Prepared By
CJO
Chemist
SLF
Analyst
AKL
Date Complete
01/12/96
Analysis Date
01/11/96
Analysis Time
12:00 PM
Sample Point
BX-109

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/mL = Rs * DF * DDF / (EFF * SS * 2220000dpm/µCi)

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/mL - SAMPLE µCi/mL) * ((SDF/SVol)/(DF*DDF/SS))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

QC ACTUAL	=	3.92E-02
QC FOUND	=	3.61E-02
AVG. PERCENT SPIKE RECOVERY	=	92.0%

Analyst:		CJO	Date: 12-Jan-96
Signature of Chemist:		SLF	Date: 1/16/96

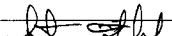
SPIKE.WB1 Rev. 1.0 508101ML

AT : LA-508-101 (D-2) LIQUIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		15	15
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	7	16
4593	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.255	0.363
Batch Number				
96000001	Blank Concentration in µCi/L	<	4.87E-02	
Rerun	Replicate Concentration in µCi/L		6.95E-02	
0	Maximum Concentration in µCi/L	<	6.9454E-02	

Sample Prep	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG
Sample #	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)
S95T000853	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
CJO	
Chemist	v RESULTS v

SLF	ALPHA TOTAL	in µCi/m	< 6.95E-05	DETECTION LEVEL
Analyst				
AKL	LESS THAN Value was Determined from Rmax.			
Date Complete				8.45E-05
01/12/96	RELATIVE COUNTING ERROR		500.0%	µCi/mL
Analysis Date				
01/11/96				
Analysis Time				
12:00 PM				
Sample Point				
BX-109				

Analyst:		CJO	Date: 12-Jan-96
Signature of Chemist:		SLF	Date: 1/16/96

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) LIQUIDS

			DUP	REPLICATE
Type	DETECTOR NUMBER		15	15
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	16	21
4593	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.363	0.530

Batch Number		
96000001	Blank Concentration in µCi/L	6.95E-02
Rerun	Replicate Concentration in µCi/L	1.01E-01
0	Average Concentration in µCi/L	8.5384E-02

Sample Prep: N/A

Sample #: S95T000853

Instrument Code: WB26872

Prepared By: CJO

Chemist: SLF

Analyst: AKL

Date Complete: 01/12/96

Analysis Date: 01/11/96

Analysis Time: 12:00 PM

Sample Point: BX-109

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/m	8.54E-05	
RELATIVE COUNTING ERROR		82.6%	8.45E-05 µCi/mL

Analyst:		CJO	Date: 12-Jan-96
Signature of Chemist:		SLF	Date: 1/16/96

SAMPLE.WB1 Rev. 1.0 50810 ML

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type	DETECTOR NUMBER			SPIKE	REPLICATE
SPK	DISH SIZE 1 , 2 , or 5		(MS)	2	2
Work List	TOTAL COUNTS		(TC)	55252	53646
4593	COUNT TIME in MINUTES		(CT)	30	30
AT or TB ?	BACKGROUND in cpm		(BKG)	0.17	0.17
AT	SAMPLE VOLUME in mL	(Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR	(Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST DILUTION FACTOR		(DDF)	1	1
Matrix	SPIKE VOLUME in mL		(SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR		(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER		(Spk BN)	119B43	119B43
96000001	SPIKE VALUE in µCi/mL		(SVal)	3.9211E-02	3.9211E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR		(EFF)	0.238	0.238
0	SAMPLE + SPIKE µCi/mL		(S+S)	3.52E-01	3.42E-01
Sample Prep	AVERAGE or MAXIMUM µCi/mL in SAMPLE		<	6.9454E-05	
N/A					

Sample #
S95T000853
Instrument Code
WB26872
Prepared By
CJO
Chemist
SLF
Analyst
AKL
Date Complete
01/12/96
Analysis Date
01/11/96
Analysis Time
12:00 PM
Sample Point
BX-109

Rs (Sample Count Rate) = (TC / CT) - BKG
SAMPLE + SPIKE µCi/mL = Rs * DF * DDF / (EFF * SS * 2220000dpm/µCi)
QC ACTUAL = SVal
QC FOUND = (((S+S µCi/mL - SAMPLE µCi/mL) * ((SDF/SVol)/(DF*DDF/SS))))
PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

NOTE: **Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.**

QC ACTUAL	=	3.92E-02
QC FOUND	=	3.43E-02
AVG. PERCENT SPIKE RECOVERY	=	87.6%

Analyst: CJO Date: 12-Jan-96

Signature of Chemist: SLF Date: 1/16/96

SPIKE.WB1 Rev. 1.0 50810 ML

WHC-SD-WM-DP-154, REV. 0

LABCORE Data Entry Template for Worklist# 2075

Analyst: Kim Thomas **Instrument:** AB00 LG WB27806 **Book #** 132852

Method: LA-508-101 Rev/Mod PKL 2-23-95 DTD2

Worklist Comment: Run AT & TB on same mount. Use .1-10-.1 mL sample size. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	0.77			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	4	SAMPLE	S95T001329	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	4	SAMPLE	S95T001329	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	5	DUP	S95T001329	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	5	DUP	S95T001329	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		6	STD				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		6	STD				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		7	BLNK-PREP				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		7	BLNK-PREP				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		8	BLNK/BKG	0.91			@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000057	BX-109	9	SAMPLE	S95T001329	0	F	@BETA-01 BETA-01	SOLID	N/A			uCi/g
95000057	BX-109	9	SAMPLE	S95T001329	0	F	@BETA-01 BETA-01E	SOLID	N/A			% Ct. Error
95000057	BX-109	10	DUP	S95T001329	0	F	@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000057	BX-109	10	DUP	S95T001329	0	F	@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2075

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 2075

Kim Thomas 8-23-95
Analyst Signature Date

Sharon L Walker 8.28.95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type			STANDARD	REPLICATE
STANDARD	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2075	TOTAL COUNTS	(TC)	4291	4173
AT or IS ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.28	0.28
Test Code	SAMPLE SIZE in mL	(SS)	10.000	10.000
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST DILUTION FACTOR	(DDF)	1	1
LIQUID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		142.753	138.820
WORKLIST#2075	Sample Concentration in µCi/L		3.06E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/L		2.97E-02	132B52
WB27806	Average Concentration in µCi/L		3.0141E-02	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/23/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL in µCi/mL (Average)	=	3.01E-05	
RELATIVE COUNTING ERROR	=	3.0%	1.16E-07 µCi/mL

Data Entry by: Diana J Holden Date: 08/24/95

Approved by: Date: 8/25/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2075	TOTAL COUNTS	(TC)	10	3
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.28	0.28
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.289	0.225
S95T1329	Sample Concentration in µCi/g	<	2.83E-01	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	2.20E-01	
WB27806	Maximum Concentration in µCi/g	<	2.8251E-01	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/23/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.83E-01	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				5.29E-01 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Thomas J. Gallo Date: 08/24/95

Approved by: [signature] Date: 8/25/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	10	12
2075	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.28	0.28
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.289	0.368
Sample #	Sample Concentration in µCi/g	<	2.83E-01	BOOK#
S95T1329	Replicate Concentration in µCi/g	<	3.60E-01	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	3.5982E-01	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/23/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.60E-01	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				
RELATIVE COUNTING ERROR		=	500.0%	5.29E-01 µCi/g

Data Entry by: [signature] Date: 08/24/95

Approved by: [signature] Date: 8/25/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	7	10
2075	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.28	0.28
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.2676	2.2676
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.225	0.289
Sample #	Sample Concentration in µCi/g	<	2.15E-01	BOOK#
S95T1329	Replicate Concentration in µCi/g	<	2.76E-01	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	2.7583E-01	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/23/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.76E-01	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				5.16E-01 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Date: 08/24/95

Approved by: Date: 8/25/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type			STANDARD	REPLICATE
STANDARD	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2075	TOTAL COUNTS	(TC)	36237	35936
AI or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	17	17
Test Code	SAMPLE SIZE in mL	(SS)	10.000	10.000
@BETA-01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST DILUTION FACTOR	(DDF)	1	1
LIQUID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1190.900	1180.867
WORKLIST#2075	Sample Concentration in µCi/L		1.28E-01	BOOK#
Instrument Code	Replicate Concentration in µCi/L		1.27E-01	132B52
WB27806	Average Concentration in µCi/L		1.2734E-01	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/23/95	TOTAL BETA µCi/mL = TOTAL BETA µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
TOTAL BETA in µCi/mL (Average)	=	1.27E-04	
RELATIVE COUNTING ERROR	=	1.1%	3.87E-07 µCi/mL

Data Entry by: Shawn Gallagher Date: 08/24/95

Approved by: [signature] Date: 8/25/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2075	TOTAL COUNTS	(TC)	452	479
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	17	17
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@BETA-01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
SOLID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.757	1.757
S95T1329	Sample Concentration in µCi/g	<	8.60E-01	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	8.60E-01	
WB27806	Maximum Concentration in µCi/g	<	8.6044E-01	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/23/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

				DETECTION LEVEL
TOTAL BETA	in µCi/g (Maximum)	=	< 8.60E-01	
LESS Than Value was Determined from Lc.				1.77E+00 µCi/g
RELATIVE COUNTING ERROR		=	198.8%	

Data Entry by: Shayne L Yoder Date: 08/24/95
Approved by: [signature] Date: 8/25/95
Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154. REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2075	TOTAL COUNTS	(TC)	23923	23682
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	17	17
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@BETA-01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
SOLID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		780.433	772.400
S95T1329	Sample Concentration in µCi/g		3.82E+02	BOOK#
Instrument Code	Replicate Concentration in µCi/g		3.78E+02	
WB27806	Average Concentration in µCi/g		3.8032E+02	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/23/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	3.80E+02	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	1.3%	1.77E+00 µCi/g

Data Entry by: Date: 08/24/95

Approved by: Date: 8/25/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	23732	23100
2075	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	17	17
TB	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	101	101
@BETA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.2676	2.2676
Matrix	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		774.067	753.000
Sample #	Sample Concentration in µCi/g		3.70E+02	BOOK#
S95T1329	Replicate Concentration in µCi/g		3.60E+02	
Instrument Code				
WB27806	Average Concentration in µCi/g		3.6517E+02	
Analyst				
KNT	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/23/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	3.65E+02	DETECTION LEVEL
				1.72E+00 µCi/g
RELATIVE COUNTING ERROR		=	1.3%	

Data Entry by: [signature] Date: 08/24/95

Approved by: [signature] Date: 8/25/95

Form 508101_C Rev. 1.3

worklistrpt Version 2.1 05/15/95
09/05/95 14:41

WHC-SD-WM-DP-154, REV. 0

LABCORE Data Entry Template for Worklist# 2248

Analyst: AKL **Instrument:** AB00 15 WB26872 **Book #** 140852

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .250 mL sample size. Use .100 mL A-SPK. RR#1 SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		1	STD				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	1.22			@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@BETA-01 BETA-01	SOLID	N/A			uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@BETA-01 BETA-01E	SOLID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T001471	0	F	@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000059	BX-109	5	DUP	S95T001471	0	F	@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
95000059	BX-109	6	SPK	S95T001471	0	F	@BETA-01 BETA-01	SOLID			N/A	uCi/g

Final page for worklist # 2248

C J Lewis 9/6/95
Analyst Signature **Date**

Sharon L Walker 9.7.95
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type			STANDARD	REPLICATE
STANDARD	DETECTOR NUMBER		15	15
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2248	TOTAL COUNTS	(TC)	36020	34656
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	8	8
Test Code	SAMPLE SIZE in mL	(SS)	10.000	10.000
@BETA-01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST DILUTION FACTOR	(DDF)	1	1
LIQUID	EFFICIENCY FACTOR	(EFF)	0.4207	0.4207
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1192.667	1147.200
WORKLIST#2248	Sample Concentration in µCi/L		1.28E-01	BOOK#
Instrument Code	Replicate Concentration in µCi/L		1.23E-01	140B52
WB26872	Average Concentration in µCi/L		1.2527E-01	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
09/06/95	TOTAL BETA µCi/mL = TOTAL BETA µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/mL	(Average) =	1.25E-04	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	1.1%	2.68E-07 µCi/mL

Data Entry by: [signature] Date: 09/07/95

Approved by: [signature] Date: 9/7/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		15	15
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2248	TOTAL COUNTS	(TC)	307	278
A1 or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	8	8
Test Code	SAMPLE SIZE in mL	(SS)	0.500	0.500
@BETA-01	DILUTION FACTOR	(DF)	34.33	34.33
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0436	1.0436
SOLID	EFFICIENCY FACTOR	(EFF)	0.4207	0.4207
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		2.233	1.267
S95T1471	Sample Concentration in µCi/g		1.57E-01	BOOK#
Instrument Code	Replicate Concentration in µCi/g		8.92E-02	140B52
WB26872	Average Concentration in µCi/g		1.2328E-01	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
09/06/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	1.23E-01	DETECTION LEVEL
				1.76E-01 µCi/g
RELATIVE COUNTING ERROR		=	117.4%	

Data Entry by: Sharon L Walsh Date: 09/07/95

Approved by: [signature] Date: 9/7/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SAMPLE	REPLICATE
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	137660	138976
2248	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	8	8
TB	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	34.33	34.33
@BETA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0436	1.0436
Matrix	EFFICIENCY FACTOR	(EFF)	0.4207	0.4207
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		4580.667	4624.533
Sample #	Sample Concentration in µCi/g		3.23E+02	BOOK#
S95T1471	Replicate Concentration in µCi/g		3.26E+02	140B52
Instrument Code				
WB26872	Average Concentration in µCi/g		3.2423E+02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
09/06/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	3.24E+02	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	0.5%	1.76E-01 µCi/g

Data Entry by: [signature] Date: 09/07/95

Approved by: [signature] Date: 9/7/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		15	15
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	135414	138241
2248	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	8	8
TB	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	34.33	34.33
@BETA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0608	1.0608
Matrix	EFFICIENCY FACTOR	(EFF)	0.4207	0.4207
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		4505.800	4600.033
Sample #	Sample Concentration in µCi/g		3.12E+02	BOOK#
S95T1471	Replicate Concentration in µCi/g		3.19E+02	140B52
Instrument Code				
WB26872	Average Concentration in µCi/g		3.1553E+02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
09/06/95				
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
TOTAL BETA	in µCi/g (Average) =	3.16E+02	
RELATIVE COUNTING ERROR	=	0.5%	1.73E-01 µCi/g

Data Entry by: Elyse Hyde Date: 09/07/95

Approved by: [signature] Date: 9/7/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	
SPIKE	
Work List	
2248	
AT or TB ?	
TB	
Test Code	
@BETA-01	
Matrix	
SOLID	
Sample #	
S95T1471	
Instrument Code	
WB26872	
Analyst	
AKL	
Date	
09/06/95	
Time	
01:30 PM	

			SPIKE	REPLICATE
DETECTOR NUMBER			15	15
DISH SIZE 1 , 2 , or 5		(MS)	2	2
TOTAL COUNTS		(TC)	357600	372297
COUNT TIME in MINUTES		(CT)	30	30
BACKGROUND in cpm		(BKG)	8	8
SAMPLE VOLUME in mL	(Spiked Vial)	(SS)	0.500	0.500
SAMPLE DILUTION FACTOR	(Spiked Vial)	(DF)	34.33	34.33
DIGEST GRAMS of SOLIDS/L		(Dg/L)	1.0436	1.0436
SPIKE VOLUME in mL		(SVol)	0.050	0.050
SPIKE DILUTION FACTOR		(SDF)	1	1
SPIKE VALUE in µCi/L		(SVal)	158.71	158.71
INSTRUMENT EFFICIENCY FACTOR		(EFF)	0.4207	0.4207
SAMPLE + SPIKE µCi/g		(S+S)	8.39E+02	8.74E+02
AVERAGE or MAXIMUM µCi/g from FORM C			3.2423E+02	
BOOK#			86B52	

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 101.9%

Data Entry by: Shyam Kalra Date: 07-Sep-95

Approved by: [signature] Date: 9/7/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 6969

Analyst: AKL **Instrument:** AB00 #16 **Book#** 47856

Method: LA-508-101 Rev/Mod _____

Worklist Comment: Determine sample size using ludlum.For spike use: 0.1ml. new

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	STD				@BETA-01	SOLID		
2	BLNK-PREP				@BETA-01	SOLID		
3	BLNK/BKG				@BETA-01	SOLID		
4	SAMPLE	S95T000769	0	F	@BETA-01	SOLID	95000057	BX-109
		Analytes Requested: BETA-01 , BETA-01E						
5	DUP	S95T000769	0	F	@BETA-01	SOLID		
6	SPK	S95T000769	0	F	@BETA-01	SOLID		

Final page for worklist # 6969

A Lewis 4/2/96
Analyst Signature **Date**

Analyst Signature **Date**
Sue Hogan 4/3/96

Data Entry Comments:
STD recovery is out of current control limits. New STD (Book# 47856) has caused a shift in mean recovery. New control limits are currently being evaluated. Project Coordinator has authorized use of current data. No rerun requested.
4/3/96

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 6969

Analyst: akl **Instrument:** AB16 **Book#** _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size using ludlum.For spike use: 0.1ml. new

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	STD		0		@BETA-01	BETA-01 SOLID	1.81E-03	2.14E-3	118.230	% Recovery
1	STD		0		@BETA-01	BETA-01E SOLID	1.00	8.11E-01	0.810	% Ct. Error
2	BLNK-PREP		0		@BETA-01	BETA-01 SOLID	1	1.27E-1	0.130	uCi/g
2	BLNK-PREP		0		@BETA-01	BETA-01E SOLID	1.00	4.49E+01	44.900	% Ct. Error
3	BLNK/BKG		0		@BETA-01	BETA-01 SOLID	1.00E+00	1.39E+00	1.390	uCi/g
4	SAMPLE	S95T000769	0	F	@BETA-01	BETA-01 SOLID	N/A	2.72E+02	8.330e-002	uCi/g
4	SAMPLE	S95T000769	0	F	@BETA-01	BETA-01E SOLID	N/A	3.61E-01	0.000	% Ct. Error
5	DUP	S95T000769	0	F	@BETA-01	BETA-01 SOLID	2.72E+2	2.69E+2	1.110	RPD
5	DUP	S95T000769	0	F	@BETA-01	BETA-01E SOLID	1.00	3.64E-01	0.360	% Ct. Error
6	SPK	S95T000769	0	F	@BETA-01	BETA-01 SOLID	1.92E-01	2.11E-01	109.900	% Recovery

Final page for worklist# 6969

Analyst Signature Date

Analyst Signature Date

Reviewer Signature 4/4/96 Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 6969

Analyst: akl **Instrument:** AB16 **Book#** _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size using ludlum.For spike use: 0.1ml. new

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	STD		0		@BETA-01 BETA-01	SOLID	1.81E-03	2.14E-3	118.230	% Recovery
1	STD		0		@BETA-01 BETA-01E	SOLID	1.00	8.11E-01	0.810	% Ct. Error
2	BLNK-PREP		0		@BETA-01 BETA-01	SOLID	1	1.27E-1	0.130	uCi/g
2	BLNK-PREP		0		@BETA-01 BETA-01E	SOLID	1.00	4.49E+01	44.900	% Ct. Error
3	BLNK/BKG		0		@BETA-01 BETA-01	SOLID	0.00E+00	1.39E+00	0.000	uCi/g
4	SAMPLE	S95T000769	0	F	@BETA-01 BETA-01	SOLID	N/A	2.72E+02	8.330e-002	uCi/g
4	SAMPLE	S95T000769	0	F	@BETA-01 BETA-01E	SOLID	N/A	3.61E-01	0.000	% Ct. Error
5	DUP	S95T000769	0	F	@BETA-01 BETA-01	SOLID	2.72E+2	2.69E+2	1.110	RPD
5	DUP	S95T000769	0	F	@BETA-01 BETA-01E	SOLID	1.00	3.64E-01	0.360	% Ct. Error
6	SPK	S95T000769	0	F	@BETA-01 BETA-01	SOLID	1.92E-01	2.11E-01	109.900	% Recovery

Final page for worklist# 6969

Analyst Signature Date

Analyst Signature Date

Reviewer Signature Date

Corrected QC actual + yield for BLNK/BKG.

4/4/96

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

TB : LA-508-101 (D-2) STANDARD

Type	DETECTOR NUMBER		STANDARD	REPLICATE
STD	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	60537	59519
6969	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	12	12
TB	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	1	1
@BETA-01	STANDARD BOOK NUMBER	(Std BN)	47B56	47B56
Matrix	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		2005.900	1971.967
Batch Number	Standard Value in µCi/mL		1.81E-03	
96002675	Concentration in µCi/L	=	2.15E+00	
Rerun	Replicate Concentration in µCi/L	=	2.12E+00	
0	AVERAGE CONCENTRATION in µCi/L	=	2.1357E+00	
Sample Prep				
N/A				
Sample #				
WL6969				
Instrument Code				
WB27806				
Prepared By				
MCB				
Chemist				
SLF	TOTAL BETA CONCENTRATION in µCi/mL	=	2.14E-03	DETECTION LEVEL
Analyst				
AKL				3.27E-06 µCi/mL
Date Complete	RELATIVE COUNTING ERROR	=	0.8%	
04/03/96				
Analysis Date				
04/02/96				
Analysis Time				
12:00 PM				
Sample Point				
BX-109				

Rs (Sample Count Rate) = (TC / CT) - BKG

TOTAL BETA µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

TOTAL BETA µCi/mL = TOTAL BETA µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Analyst:		MCB	Date: 03-Apr-96
Signature of Chemist:		SLF	Date: 4/3/96

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

TB : LA-508-101 (D-2) SOLIDS

			BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER		16	16
BLNK-PREP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	487	511
6969	COUNT TIME In MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND In cpm	(BKG)	12	12
TB	SAMPLE SIZE In mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	51	51
@BETA-01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0012	2.0012
Matrix	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		4.233	5.033

Batch Number	
96002675	Blank Concentration in µCi/g 1.16E-01
Rerun	Replicate Concentration in µCi/g 1.38E-01
0	Average Concentration in µCi/g 1.2679E-01
Sample Prep	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG
Sample #	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)
WL6969	
Instrument Code	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
MCB	
Chemist	
SLF	TOTAL BETA in µCi/g (Average) = 1.27E-01
Analyst	
AKL	
Date Complete	
04/03/96	RELATIVE COUNTING ERROR 44.9%
Analysis Date	
04/02/96	
Analysis Time	
12:00 PM	
Sample Point	
BX-109	

DETECTION LEVEL
8.33E-02 µCi/g

Analyst:		AKL	Date: 03-Apr-96
Signature of Chemist:		SLF	Date: 4/3/96

BLANK.WB1 Rev. 1.0 508100ML

WORKBOOK PAGE: SAM4

TB : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE (1, 2, or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	301725	296387
6969	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	12	12
TB	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	51	51
@BETA-01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0012	2.0012
Matrix	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		10045.500	9867.567
Batch Number				
96002675	Blank Concentration in µCi/g		2.75E+02	
Rerun	Replicate Concentration in µCi/g		2.70E+02	
0	Average Concentration in µCi/g		2.7246E+02	
Sample Prep				
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG			
Sample #	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
S95T000769				
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
MCB				
Chemist				
SLF	TOTAL BETA in µCi/g (Average) =		2.72E+02	DETECTION LEVEL
Analyst				
AKL				8.33E-02 µCi/g
Date Complete				
04/03/96	RELATIVE COUNTING ERROR		0.4%	
Analysis Date				
04/02/96				
Analysis Time				
12:00 PM				
Sample Point				
BX-109				

Analyst:		AKL	Date: 03-Apr-96
Signature of Chemist:		SLF	Date: 4/3/96

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

TB : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
Type	DETECTOR NUMBER		16	16
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	290879	290714
6969	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	12	12
TB	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	51	51
@BETA-01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	1.9716	1.9716
Matrix	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		9683.967	9678.467
Batch Number				
96002675	Blank Concentration in µCi/g		2.69E+02	
Rerun	Replicate Concentration in µCi/g		2.69E+02	
0	Average Concentration in µCi/g		2.6890E+02	
Sample Prep				
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG			
Sample #	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
S95T000769				
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
MCB				
Chemist				
SLF	TOTAL BETA in µCi/g (Average) =		2.69E+02	DETECTION LEVEL
Analyst				
AKL				8.45E-02 µCi/g
Date Complete	RELATIVE COUNTING ERROR		0.4%	
04/03/96				
Analysis Date				
04/02/96				
Analysis Time				
12:00 PM				
Sample Point				
BX-109				

Analyst:		AKL	Date: 03-Apr-96
Signature of Chemist:		SLF	Date: 4/3/96
SAMPLE.WB1 Rev. 1.0	508101ML		

WORKBOOK PAGE: SPIKE6

TB : LA-508-101 (D-2) SPIKED SAMPLE

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPK	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	304607	287562
6969	COUNT TIME in MINUTES	(CT)	10	10
AT or TB ?	BACKGROUND in cpm	(BKG)	12	12
TB	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	51	51
@BETA-01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0012	2.0012
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER	(Spk BN)	42B56	42B56
96002675	SPIKE VALUE in µCi/mL	(SVal)	1.9236E-01	1.9236E-01
Rerun	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
0	SAMPLE + SPIKE µCi/g	(S+S)	8.33E+02	7.87E+02
Sample Prep	AVERAGE or MAXIMUM µCi/g in SAMPLE		2.7246E+02	
FUSION01				
Sample #				
S95T000769	Rs (Sample Count Rate) = (TC / CT) - BKG			
Instrument Code	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27806	QC ACTUAL = SVal			
Prepared By	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
MCB	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
Chemist				
SLF				
Analyst				
AKL				
Date Complete				
04/03/96				
Analysis Date				
04/02/96	QC ACTUAL	=	1.92E-01	
Analysis Time	QC FOUND	=	2.11E-01	
12:00 PM	AVG. PERCENT SPIKE RECOVERY	=	109.6%	
Sample Point				
BX-109				

Analyst:		MCB	Date: 03-Apr-96
Signature of Chemist:		SLF	Date: 4/3/96

SPIKE.WB1 Rev. 1.0 508101ML

THE FOLLOWING ANALYSES ARE INCLUDED IN THE DATA PACKAGE, BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

LABCORE Data Entry Template for Worklist# 1983

Analyst: JAL **Instrument:** AB00 1/2 uB27806 **Book #** 132052

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Run AT & TB on same mount. Determine s.s. using Ludlum. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	4	SAMPLE	S95T001329	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000057	BX-109	4	SAMPLE	S95T001329	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000057	BX-109	5	DUP	S95T001329	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000057	BX-109	5	DUP	S95T001329	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		6	STD				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		6	STD				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		7	BLNK-PREP				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		7	BLNK-PREP				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		8	BLNK/BKG				@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000057	BX-109	9	SAMPLE	S95T001329	0	F	@BETA-01 BETA-01	SOLID	N/A			uCi/g
95000057	BX-109	9	SAMPLE	S95T001329	0	F	@BETA-01 BETA-01E	SOLID	N/A			% Ct. Error
95000057	BX-109	10	DUP	S95T001329	0	F	@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000057	BX-109	10	DUP	S95T001329	0	F	@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error

DATA NOT USED IN PACKAGE

Data Entry Comments:

The Beta RPD is out of method limits.

The worklist will be rerun. AJ Smith 8/23/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1983

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 1983

Analyst Signature Date 08/13/95

Analyst Signature Date 8-15-95 8-22-95

DATA
NOT USED
IN PACKAGE

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		16	16
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4571	4083
1983	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		152.167	135.900
Sample #	Sample Concentration in µCi/L		3.26E-02	BOOK#
WORKLIST#1983	Replicate Concentration in µCi/L		2.91E-02	132B52
Instrument Code				
WB27806	Average Concentration in µCi/L		3.0836E-02	
Analyst				
EAL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/13/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
12:16 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

DATA NOT USED IN PACKAGE

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	3.08E-05	DETECTION LEVEL
				1.01E-07 µCi/mL
RELATIVE COUNTING ERROR		=	3.1%	

Data Entry by: [signature] Date: 08/15/95

Approved by: [signature] Date: 8/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
1983	TOTAL COUNTS	(TC)	8	5
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.2	0.2
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.272	0.191
S95T1329	Sample Concentration in µCi/g	<	2.66E-01	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	1.86E-01	
WB27606	Maximum Concentration in µCi/g	<	2.6610E-01	
Analyst				
EAL				
Date				
08/13/95				
Time				
12:18 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

DATA NOT USED IN PACKAGE

ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.66E-01	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				4.61E-01 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Shyron Holder Date: 08/15/95

Approved by: Date: 8/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA
NOT USED
IN PACKAGE

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	19	6
1983	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.433	0.191
Sample #	Sample Concentration in µCi/g		4.23E-01	BOOK#
S95T1329	Replicate Concentration in µCi/g	<	1.86E-01	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	4.2322E-01	
Analyst				
EAL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/13/95				
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
12:18 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g (Maximum) =	< 4.23E-01	
LESS THAN Value was Determined from Rs.			4.61E-01 µCi/g
RELATIVE COUNTING ERROR	=	500.0%	

Data Entry by: [signature] Date: 08/15/95
Approved by: [signature] Date: 8/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA
NOT USED
IN PACKAGE

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER			SAMPLE	REPLICATE
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)		2	2
Work List	TOTAL COUNTS	(TC)		6	10
1983	COUNT TIME in MINUTES	(CT)		30	30
AT or TB ?	BACKGROUND in cpm	(BKG)		0.2	0.2
AT	SAMPLE SIZE in mL	(SS)		0.100	0.100
Test Code	DILUTION FACTOR	(DF)		101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)		2.2676	2.2676
Matrix	EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.191	0.353
Sample #	Sample Concentration in µCi/g		<	1.82E-01	BOOK#
S95T1329	Replicate Concentration in µCi/g		<	3.37E-01	
Instrument Code					
WB27806	Maximum Concentration in µCi/g		<	3.3693E-01	
Analyst					
EAL	Rs (Sample Count Rate) = (TC / CT) - BKG				
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
08/13/95					
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100				
12:18 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 3.37E-01	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				
RELATIVE COUNTING ERROR		=	500.0%	4.50E-01 µCi/g

Data Entry by: [signature] Date: 08/15/95

Approved by: [signature] Date: 8/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA
NOT USED
IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		16	16
STANDARD	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	36722	34942
1983	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	17	17
TB	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@BETA-01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1207.067	1147.733
Sample #	Sample Concentration in µCi/L		1.30E-01	BOOK#
WORKLIST#1983	Replicate Concentration in µCi/L		1.23E-01	132B52
Instrument Code				
WB27806	Average Concentration in µCi/L		1.2643E-01	
Analyst				
EAL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/13/95	TOTAL BETA µCi/mL = TOTAL BETA µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
12:18 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/mL	(Average) =	1.26E-04	DETECTION LEVEL
				3.87E-07 µCi/mL
RELATIVE COUNTING ERROR		=	1.1%	

Data Entry by: Stephen M Gates Date: 08/15/95
Approved by: [signature] Date: 8/15/95
Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
1983	TOTAL COUNTS	(TC)	911	1914
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	17	17
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@BETA-01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
SOLID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		13.367	46.800
S95T1329	Sample Concentration in µCi/g		6.55E+00	BOOK#
Instrument Code	Replicate Concentration in µCi/g		2.29E+01	
WB27806	Average Concentration in µCi/g		1.4736E+01	
Analyst				
EAL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/13/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
12:18 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	1.47E+01	DETECTION LEVEL
				1.77E+00 µCi/g
RELATIVE COUNTING ERROR		=	18.4%	

Data Entry by: Shannon L. Updike Date: 08/15/95

Approved by: [signature] Date: 8/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
1983	TOTAL COUNTS	(TC)	31349	21578
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	17	17
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@BETA-01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.214	2.214
SOLID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1027.967	702.267
S95T1329	Sample Concentration in µCi/g		5.04E+02	BOOK#
Instrument Code	Replicate Concentration in µCi/g		3.44E+02	
WB27806	Average Concentration in µCi/g		4.2377E+02	
Analyst				
EAL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/13/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
12:18 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	4.24E+02	DETECTION LEVEL
				1.77E+00 µCi/g
RELATIVE COUNTING ERROR		=	1.4%	

Data Entry by: Date: 08/15/95

Approved by: Date: 8/15/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	22007	21604
1983	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	17	17
TB	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	101	101
@BETA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.2676	2.2676
Matrix	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		716.567	703.133
Sample #	Sample Concentration in µCi/g		3.43E+02	BOOK#
S95T1329	Replicate Concentration in µCi/g		3.36E+02	
Instrument Code				
WB27806	Average Concentration in µCi/g		3.3950E+02	
Analyst				
EAL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/13/95				
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
12:18 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	3.39E+02	DETECTION LEVEL
				1.72E+00 µCi/g
RELATIVE COUNTING ERROR		=	1.4%	

Data Entry by: Stacy Dwight Date: 08/15/95

Approved by: [signature] Date: 8/15/95

LABCORE Data Entry Template for Worklist# 2204

Analyst: TB **Instrument:** AB00 16 **Book #** 14053

Method: LA-508-101 Rev/Mod D2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL B-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		1	STD				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@BETA-01 BETA-01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	1.08			@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@BETA-01 BETA-01	SOLID	N/A			uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@BETA-01 BETA-01E	SOLID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T001471	0	F	@BETA-01 BETA-01	SOLID			N/A	uCi/g
95000059	BX-109	5	DUP	S95T001471	0	F	@BETA-01 BETA-01E	SOLID			N/A	% Ct. Error
95000059	BX-109	6	SPK	S95T001471	0	F	@BETA-01 BETA-01	SOLID			N/A	uCi/g

Final page for worklist # 2204

Analyst Signature 8-30-95 Date

Analyst Signature 9.5.95 Date

DATA NOT USED IN PACKAGE

Data Entry Comments:

RPD for STD + replicate is out of control 1st limits. In addition SPK is out of project limits. Batch will be rerun. 9/5/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

Type			STANDARD	REPLICATE
STANDARD	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2204	TOTAL COUNTS	(TC)	17217	38321
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	18	18
Test Code	SAMPLE SIZE in mL	(SS)	10.000	10.000
@BETA-01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST DILUTION FACTOR	(DDF)	1	1
LIQUID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		555.900	1259.367
WORKLIST#2204	Sample Concentration in µCi/L		5.97E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/L		1.35E-01	140B52
WB27806	Average Concentration in µCi/L		9.7460E-02	
Analyst				
KGH	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/30/95	TOTAL BETA µCi/mL = TOTAL BETA µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/mL	(Average) =	9.75E-05	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	1.6%	3.98E-07 µCi/mL

Data Entry by: Shayan Jaffer Date: 08/31/95

Approved by: [signature] Date: 9/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			BLANK	REPLICATE
BLANK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
2204	TOTAL COUNTS	(TC)	585	577
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	18	18
Test Code	SAMPLE SIZE in mL	(SS)	0.250	0.250
@BETA-01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0436	1.0436
SOLID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		3.345	3.072
S95T1471	Sample Concentration in µCi/g	<	1.38E-02	BOOK#
Instrument Code	Replicate Concentration in µCi/g	<	1.26E-02	
WB27806	Maximum Concentration in µCi/g	<	1.3766E-02	
Analyst				
KGH	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/30/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Maximum)	=	< 1.38E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.					1.53E-02 µCi/g
RELATIVE COUNTING ERROR			=	177.0%	

Data Entry by: Shawn Gilfoil Date: 08/31/95

Approved by: [signature] Date: 8/31/95 9/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1, 2, or 5	(MS)	2	2
2204	TOTAL COUNTS	(TC)	288658	283199
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	18	18
Test Code	SAMPLE SIZE in mL	(SS)	0.250	0.250
@BETA-01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0436	1.0436
SOLID	EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
Sample #	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		9603.933	9421.967
S95T1471	Sample Concentration in µCi/g		3.95E+01	BOOK#
Instrument Code	Replicate Concentration in µCi/g		3.88E+01	
WB27806	Average Concentration in µCi/g		3.9152E+01	
Analyst				
KGH	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/30/95				
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
02:45 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
TOTAL BETA	in µCi/g (Average) =	3.92E+01	
RELATIVE COUNTING ERROR	=	0.4%	1.53E-02 µCi/g

Data Entry by: Sharon Gilbert Date: 08/31/95

Approved by: [signature] Date: 9/5/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA
NOT USED
IN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	DETECTOR NUMBER		SAMPLE	REPLICATE
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	16	16
Work List	TOTAL COUNTS	(TC)	2	2
2204	COUNT TIME in MINUTES	(CT)	283153	272625
AT or TB ?	BACKGROUND in cpm	(BKG)	30	30
TB	SAMPLE SIZE in mL	(SS)	18	18
Test Code	DILUTION FACTOR	(DF)	0.250	0.250
@BETA-01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	1.0608	1.0608
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.4195	0.4195
Sample #	Sample Concentration in µCi/g		9420.433	9069.500
S95T1471	Replicate Concentration in µCi/g		3.81E+01	BOOK#
Instrument Code			3.67E+01	
WB27806	Average Concentration in µCi/g		3.7432E+01	
Analyst				
KGH	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	TOTAL BETA µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/30/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:45 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

TOTAL BETA	in µCi/g	(Average) =	3.74E+01	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	0.4%	1.50E-02 µCi/g

Data Entry by: Shannon M Gallo Date: 08/31/95

Approved by: [signature] Date: 9/5/95

Form 508101_C Rev 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

DATA
NOT USED
iN PACKAGE

TB : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SPIKE	REPLICATE
SPIKE	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
2204	TOTAL COUNTS	(TC)	859717	860971
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
TB	BACKGROUND in cpm	(BKG)	18	18
Test Code	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.250	0.250
@BETA-01	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.0436	1.0436
SOLID	SPIKE VOLUME in mL	(SVol)	0.100	0.100
Sample #	SPIKE DILUTION FACTOR	(SDF)	1	1
S95T1471	SPIKE VALUE in µCi/L	(SVal)	159.11	159.11
Instrument Code	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.4195	0.4195
WB27806	SAMPLE + SPIKE µCi/g	(S+S)	1.18E+02	1.18E+02
Analyst	AVERAGE or MAXIMUM µCi/g from FORM C		3.9152E+01	
KGH	BOOK#		86B52	
Date				
08/30/95				
Time				
02:45 PM				

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 129.2%

Data Entry by: Sharon Hyatt Date: 05-Sep-95
Approved by: [signature] Date: 9/5/95
Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 1467

Analyst: Shown **Instrument:** GEA00 2 **Book #** 121852

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 0.100 mL sample - dilute if necessary. R(0)-PPB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 CO60-02	LIQUID			N/A	uCi/mL
		1	STD				@GEA-02 CO60-02E	LIQUID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	LIQUID			N/A	uCi/mL
		1	STD				@GEA-02 CS13702E	LIQUID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 CO60-02	LIQUID			N/A	uCi/mL
		2	BLNK-PREP				@GEA-02 CS13702	LIQUID			N/A	uCi/mL
		2	BLNK-PREP				@GEA-02 EU15402	LIQUID			N/A	uCi/mL
		2	BLNK-PREP				@GEA-02 EU15502	LIQUID			N/A	uCi/mL
		2	BLNK-PREP				@GEA-02 AM24102	LIQUID			N/A	uCi/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 CO60-02	LIQUID	N/A			uCi/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 CO60-02E	LIQUID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 CS13702	LIQUID	N/A			uCi/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 CS13702E	LIQUID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 EU15402	LIQUID	N/A			uCi/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 EU15402E	LIQUID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 EU15502	LIQUID	N/A			uCi/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 EU15502E	LIQUID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000784	0	D	@GEA-02 AM24102	LIQUID	N/A			uCi/mL

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1467

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T000784	0	D	@GEA-02 AM24102E	LIQUID	N/A			% Ct. Error
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 C060-02	LIQUID			N/A	uCi/mL
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 C060-02E	LIQUID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 CS13702	LIQUID			N/A	uCi/mL
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 CS13702E	LIQUID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 EU15402	LIQUID			N/A	uCi/mL
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 EU15402E	LIQUID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 EU15502	LIQUID			N/A	uCi/mL
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 EU15502E	LIQUID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 AM24102	LIQUID			N/A	uCi/mL
95000059	BX-109	4 DUP	S95T000784	0	D	@GEA-02 AM24102E	LIQUID			N/A	% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 C060-02	LIQUID	N/A			uCi/mL
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 C060-02E	LIQUID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 CS13702	LIQUID	N/A			uCi/mL
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 CS13702E	LIQUID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 EU15402	LIQUID	N/A			uCi/mL
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 EU15402E	LIQUID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 EU15502	LIQUID	N/A			uCi/mL
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 EU15502E	LIQUID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 AM24102	LIQUID	N/A			uCi/mL
95000059	BX-109	5 SAMPLE	S95T000854	0	D	@GEA-02 AM24102E	LIQUID	N/A			% Ct. Error

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1467

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	C060-02	LIQUID			N/A	uCi/mL
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	C060-02E	LIQUID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	CS13702	LIQUID			N/A	uCi/mL
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	CS13702E	LIQUID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	EU15402	LIQUID			N/A	uCi/mL
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	EU15402E	LIQUID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	EU15502	LIQUID			N/A	uCi/mL
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	EU15502E	LIQUID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	AM24102	LIQUID			N/A	uCi/mL
95000059	BX-109	6 DUP	S95T000854	0	D	@GEA-02	AM24102E	LIQUID			N/A	% Ct. Error

Final page for worklist # 1467

Sonja Morris 6-2-95
Analyst Signature Date

Analyst Signature 6-5-95
Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO60		2.12E+01	2.12E-02	1.5			0.00E+00			
Work List	CS137		2.49E+01	2.49E-02	1.67			0.00E+00			
1467				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
LIQUID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST 1467				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
SRM				0.00E+00				0.00E+00			
Date											
06/02/95											
Time											
03:25 PM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %
BLANK	CO60	<	2.68E-02	2.68E-03	
Work List	CS137	<	6.08E-02	6.08E-03	
1467	EU154	<	9.93E-02	9.93E-03	
Test Code	EU155	<	7.78E-02	7.78E-03	
@GEA-02	AM241	<	1.72E-02	1.72E-03	
Matrix				0.00E+00	
LIQUID				0.00E+00	
Sample #				0.00E+00	
WORKLIST#1467				0.00E+00	
				0.00E+00	
Digest DF				0.00E+00	
100				0.00E+00	
				0.00E+00	
DUP's Digest DF				0.00E+00	
1				0.00E+00	
				0.00E+00	
Instrument Code				0.00E+00	
WC38931				0.00E+00	
Analyst				0.00E+00	
SRM				0.00E+00	
Date					
06/02/95					
Time					
03:25 PM					

? <	DUPLICATE µCi/L	REPORT µCi/mL
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00
		0.00E+00

COUNTING ERROR %		AVERAGE µCi/mL	RPD

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %		AVERAGE µCi/mL	RPD
SAMPLE/DUPLICATE	CO60	<	3.75E-02	3.75E-03		<	4.17E-02	4.17E-03		<	3.96E-03	NA
Work List	CS137		1.27E+02	1.27E+01	0.68		1.26E+02	1.26E+01	0.68		1.27E+01	0.8
1467	EU154	<	9.93E-02	9.93E-03		<	1.07E-01	1.07E-02		<	1.03E-02	NA
Test Code	EU155	<	4.43E-01	4.43E-02		<	4.37E-01	4.37E-02		<	4.40E-02	NA
@GEA-02	AM241	<	1.07E+00	1.07E-01		<	1.06E+00	1.06E-01		<	1.07E-01	NA
Matrix				0.00E+00				0.00E+00				
LIQUID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T784				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
100				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
100				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
SRM				0.00E+00				0.00E+00				
Date												
06/02/95												
Time												
03:25 PM												

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: _____ Date: 06/06/95

Approved by: _____ Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
SAMPLE/DUPLICATE	CO60	<	2.75E-02	2.75E-03		<	2.93E-02	2.93E-03		< 2.84E-03	NA
Work List	CS137	<	6.68E-02	6.68E-03		<	6.80E-02	6.80E-03		< 6.74E-03	NA
1467	EU154	<	7.10E-02	7.10E-03		<	8.01E-02	8.01E-03		< 7.56E-03	NA
Test Code	EU155	<	7.57E-02	7.57E-03		<	7.70E-02	7.70E-03		< 7.64E-03	NA
@GEA-02	AM241	<	1.70E-01	1.70E-02		<	1.59E-01	1.59E-02		< 1.65E-02	NA
Matrix				0.00E+00				0.00E+00			
LIQUID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
S95T854				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
100				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
100				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
SRM				0.00E+00				0.00E+00			
Date											
06/02/95											
Time											
03:25 PM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: _____ Date: 06/06/95

Approved by: _____ Date: 6/6/95

Form 548121_1 Rev. 2.3

```
********************************************************************************
* 222-S Laboratory Counting Room     2-JUN-1995 23:49:07.81                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                WORKLIST1467-STD
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2056.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:08.92 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        2-JUN-1995 22:58:23.31
Decayed to:               2-JUN-1995 22:58:23.31
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  DM
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
********************************************************************************
```

Removed by: Ina Bachelor

date: 6-3-95

Verified by: Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	563.36	406	1.13	1126.79	1121	11	29.9		CS-134	5.03
0	569.70	709	1.69	1139.46	1133	12	19.5		CS-134	4.80
0	604.99	4642	1.52	1210.02	1203	14	4.2		CS-134	5.22
0	661.97*	17909	1.53	1323.96	1316	15	1.7		CS-137	24.9
0	796.18	3423	1.58	1592.35	1585	15	4.9		CS-134	5.54
0	802.38	292	1.71	1604.75	1600	10	32.4		CS-134	4.66
0	1173.63	10900	1.85	2347.32	2339	16	2.1		CO-60	21.4
0	1332.91	9668	1.97	2665.98	2656	19	2.1		CO-60	21.0
0	1365.98	91	1.94	2732.13	2725	18	30.1			
0	1461.05*	43	2.42	2922.37	2913	22	81.3		K-40	0.935

Total number of lines in spectrum 10
Number of unidentified lines 1
Number of lines tentatively identified by NID 9 90.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~9.350E-01~~	~~9.350E-01~~	~~7.604E-01~~	~~81.33~~	~~BK~~
CO-60	5.27Y	1.000	2.122E+01	2.122E+01	0.032E+01	1.50	
CS-134	2.06Y	1.000	5.319E+00	5.319E+00	0.167E+00	3.14	
CS-137	30.00Y	1.000	2.485E+01	2.485E+01	0.042E+01	1.67	
	Total Activity :		5.233E+01	5.233E+01			
	Grand Total Activity :		5.233E+01	5.233E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : WORKLIST1467-STD Acquisition date : 2-JUN-1995 22:58:23

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1213.	477.59	1.4128E+00
NA-22	83.	1274.53	8.8938E-02
NA-24	56.	1368.55	7.9116E-02
SC-46	428.	1120.55	1.8097E-01
CR-51	1261.	320.08	1.0745E+00
MN-54	580.	834.83	1.6134E-01
CO-56	578.	846.76	1.6311E-01
CO-57	1278.	122.06	7.9947E-02
CO-58	530.	810.78	1.5126E-01
FE-59	558.	1099.25	3.5914E-01
ZN-65	507.	1115.55	3.8705E-01
SE-75	1403.	264.66	1.7113E-01
KR-85	875.	514.00	3.0471E+01
SR-85	874.	514.01	1.3777E-01
Y-88	12.	1836.06	4.4793E-02
Y-90	19.	1760.70	1.9284E-01
Y-91	149.	1204.67	3.7974E+01
NB-94	643.	871.09	1.7612E-01
NB-95	514.	765.78	1.4141E-01
ZR-95	499.	756.73	2.5267E-01
RU-103	918.	497.08	1.4478E-01
RURH-106	599.	621.93	2.5789E+00
AG-108m	491.	722.94	1.4471E-01
CD-109	1217.	88.03	2.6786E+00
AG-110M	746.	657.76	1.5794E-01
SN-113	1187.	391.69	1.8957E-01
TE-123m	1390.	159.00	8.3415E-02
SB-124	3139.	602.73	2.9182E-01
SB-125	1141.	427.89	4.3621E-01
TE-125m	1322.	109.27	2.6950E+01
I-129	1154.	39.60	0.0000E+00
I-131	1212.	364.48	1.4354E-01
XE-131m	1396.	163.93	3.6289E+00
BA-133	1210.	356.02	1.8435E-01
CS-136	568.	818.51	1.5759E-01
CS-138	22.	1435.86	1.0866E-01
CE-139	1452.	165.85	9.1162E-02
BA-140	766.	537.31	5.2714E-01
LA-140	14.	1596.21	4.6346E-02
CE-141	1420.	145.44	1.4417E-01
CE-144	1431.	133.51	6.3274E-01
CEPR-144	1431.	133.51	1.2643E+00
EU-152	22.	1408.01	2.3578E-01
EU-154	83.	1274.51	2.5814E-01
EU-155	1180.	86.54	2.9885E-01
HF-181	977.	482.18	1.6442E-01
TA-182	1160.	67.75	4.1022E-01
HG-203	1431.	279.20	1.2859E-01
BI-207	1479.	569.70	1.9133E-01
TL-208	1459.	277.36	1.6680E+00
PB-210	1106.	46.50	0.0000E+00

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-212	503.	727.18	2.0084E+00
PB-212	1575.	238.63	2.2649E-01
BI-214	635.	609.31	2.8910E-01
PB-214	1140.	351.92	5.4918E-01
RA-224	1586.	240.99	2.5219E+00
RA-226	1571.	186.10	2.3119E+00
AC-228	700.	911.21	7.1776E-01
TH-228	1153.	84.37	8.0066E+00
TH-229	1193.	88.47	3.8449E-01
U-232	1087.	57.78	1.4850E+02
PA-233	1254.	312.17	2.7478E-01
PA-234M	552.	1001.03	9.3258E+00
TH-234	1186.	63.29	4.7296E+00
U-235	1562.	185.71	1.4012E-01
NP-237	1180.	86.48	7.9141E-01
U-237	1116.	59.54	7.6156E-01
NP-238	602.	984.45	6.8868E-01
NP-239	1276.	106.12	3.3750E-01
PU-239	1445.	129.30	1.1100E+03
AM-241	1116.	59.54	7.3051E-01
AM-243	1204.	74.67	2.2237E-01

****
* 222-S Laboratory Counting Room 3-JUN-1995 01:07:07.46 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	WORKLIST1467-BLK
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: Eric Barclay

date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA2
File Number:	dka300:[spec.GEA2]2g2057.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:00.51 sec

Verified by: D Bracher 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	3-JUN-1995 00:16:32.22
Decayed to:	3-JUN-1995 00:16:32.22
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	EMB
Background Subtract:	DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	610.79*	15	0.77	1221.62	1218		11131.2			

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%
**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	26.	477.59	2.0853E-01
NA-22	12.	1274.53	3.4245E-02
NA-24	10.	1368.55	3.3380E-02
K-40	102.	1460.75	1.0311E+00
SC-46	23.	1120.55	4.2041E-02
CR-51	58.	320.08	2.3065E-01
MN-54	15.	834.83	2.5777E-02
CO-56	15.	846.76	2.6332E-02
CO-57	74.	122.06	1.9181E-02
CO-58	9.	810.78	1.9482E-02
FE-59	10.	1099.25	4.8954E-02
CO-60	7.	1332.50	2.6770E-02
ZN-65	11.	1115.55	5.5961E-02
SE-75	56.	264.66	3.4231E-02
KR-85	57.	514.00	7.7677E+00
SR-85	57.	514.01	3.5081E-02
Y-88	1.	1836.06	1.3173E-02
Y-90	4.	1760.70	8.6195E-02
Y-91	10.	1204.67	1.0006E+01
NB-94	15.	871.09	2.6524E-02
NB-95	26.	765.78	3.2034E-02
ZR-95	17.	756.73	4.6484E-02
RU-103	30.	497.08	2.6177E-02
RURH-106	25.	621.93	5.3121E-01
AG-108m	22.	722.94	3.0447E-02
CD-109	72.	88.03	6.5070E-01
AG-110M	20.	657.76	2.5544E-02
SN-113	44.	391.69	3.6451E-02
TE-123m	72.	159.00	1.8976E-02
SB-124	30.	602.73	2.8663E-02
SB-125	35.	427.89	7.6050E-02
TE-125m	70.	109.27	6.2193E+00
I-129	70.	39.60	0.0000E+00
I-131	42.	364.48	2.6661E-02
XE-131m	60.	163.93	7.5295E-01
BA-133	42.	356.02	3.4299E-02
CS-134	27.	604.70	2.7166E-02
CS-136	14.	818.51	2.4738E-02
CS-137	89.	661.66	6.0771E-02
CS-138	4.	1435.86	4.5963E-02
CE-139	66.	165.85	1.9473E-02
BA-140	29.	537.31	1.0320E-01
LA-140	7.	1596.21	3.1983E-02
CE-141	73.	145.44	3.2762E-02
CE-144	76.	133.51	1.4595E-01
CEPR-144	76.	133.51	2.9154E-01
EU-152	11.	1408.01	1.6799E-01
EU-154	12.	1274.51	9.9330E-02
EU-155	80.	86.54	7.7838E-02
HF-181	19.	482.18	2.3023E-02
TA-182	61.	67.75	9.4044E-02

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
HG-203	57.	279.20	2.5560E-02
BI-207	20.	569.70	2.2478E-02
TL-208	61.	277.36	3.4239E-01
PB-210	55.	46.50	0.0000E+00
BI-212	21.	727.18	4.1338E-01
PB-212	74.	238.63	4.8932E-02
BI-214	43.	609.31	7.5140E-02
PB-214	62.	351.92	1.2764E-01
RA-224	81.	240.99	5.7062E-01
RA-226	78.	186.10	5.1638E-01
AC-228	29.	911.21	1.4518E-01
TH-228	76.	84.37	2.0495E+00
TH-229	70.	88.47	9.2977E-02
U-232	48.	57.78	3.1366E+01
PA-233	47.	312.17	5.3378E-02
PA-234M	6.	1001.03	9.9875E-01
TH-234	59.	63.29	1.0528E+00
U-235	83.	185.71	3.2376E-02
NP-237	80.	86.48	2.0581E-01
U-237	62.	59.54	1.7899E-01
NP-238	10.	984.45	8.9902E-02
NP-239	74.	106.12	8.1356E-02
PU-239	71.	129.30	2.4568E+02
AM-241	62.	59.54	1.7170E-01
AM-243	63.	74.67	5.0959E-02

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 02:20:34.10                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T784-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2058.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:12.70 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 01:29:46.78
Decayed to:               3-JUN-1995 01:29:46.78
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  EMB
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************
```

Removed by: Em Bueler

date: 6-3-95

Verified by: B Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.94*	91336	1.52	1323.89	1315	17	0.7		CS-137	127.

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	1.268E+02	1.268E+02	0.009E+02	0.68	
Total Activity :			1.268E+02	1.268E+02			
Grand Total Activity :			1.268E+02	1.268E+02			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2994.	477.59	2.2194E+00
NA-22	12.	1274.53	3.4245E-02
NA-24	6.	1368.55	2.5738E-02
K-40	123.	1460.75	1.1315E+00
SC-46	26.	1120.55	4.4440E-02
CR-51	2440.	320.08	1.4948E+00
MN-54	21.	834.83	3.1022E-02
CO-56	28.	846.76	3.5909E-02
CO-57	2878.	122.06	1.1997E-01
CO-58	21.	810.78	2.9816E-02
FE-59	16.	1099.25	6.0515E-02
CO-60	14.	1332.50	3.7487E-02
ZN-65	18.	1115.55	7.2606E-02
SE-75	2747.	264.66	2.3941E-01
KR-85	1558.	514.00	4.0663E+01
SR-85	1557.	514.01	1.8382E-01
Y-88	3.	1836.06	2.1303E-02
Y-90	7.	1760.70	1.1981E-01
Y-91	17.	1204.67	1.2994E+01
NB-94	21.	871.09	3.1800E-02
NB-95	22.	765.78	2.9155E-02
ZR-95	28.	756.73	5.9407E-02
RU-103	1684.	497.08	1.9608E-01
RURH-106	641.	621.93	2.6668E+00
AG-108m	28.	722.94	3.4703E-02
CD-109	2580.	88.03	3.8995E+00
AG-110M	1415.	657.76	2.1758E-01
SN-113	2567.	391.69	2.7881E-01
TE-123m	2894.	159.00	1.2035E-01
SB-124	598.	602.73	1.2736E-01
SB-125	2973.	427.89	7.0415E-01
TE-125m	2740.	109.27	3.8802E+01
I-129	2297.	39.60	0.0000E+00
I-131	2560.	364.48	2.0855E-01
XE-131m	2822.	163.93	5.1589E+00
BA-133	2352.	356.02	2.5701E-01
CS-134	607.	604.70	1.2890E-01
CS-136	26.	818.51	3.3672E-02
CS-138	3.	1435.86	3.9876E-02
CE-139	2878.	165.85	1.2837E-01
BA-140	1044.	537.31	6.1511E-01
LA-140	7.	1596.21	3.2640E-02
CE-141	2942.	145.44	2.0750E-01
CE-144	2863.	133.51	8.9489E-01
CEPR-144	2863.	133.51	1.7881E+00
EU-152	8.	1408.01	1.4383E-01
EU-154	12.	1274.51	9.9330E-02
EU-155	2593.	86.54	4.4298E-01
HF-181	2371.	482.18	2.5610E-01
TA-182	2474.	67.75	5.9921E-01
HG-203	2543.	279.20	1.7140E-01

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	743.	569.70	1.3564E-01
TL-208	2525.	277.36	2.1945E+00
PB-210	2200.	46.50	0.0000E+00
BI-212	38.	727.18	5.5117E-01
PB-212	3061.	238.63	3.1573E-01
BI-214	651.	609.31	2.9259E-01
PB-214	2357.	351.92	7.9002E-01
RA-224	3006.	240.99	3.4724E+00
RA-226	3559.	186.10	3.4800E+00
AC-228	33.	911.21	1.5549E-01
TH-228	2543.	84.37	1.1888E+01
TH-229	2564.	88.47	5.6353E-01
U-232	2359.	57.78	2.1876E+02
PA-233	2417.	312.17	3.8154E-01
PA-234M	17.	1001.03	1.6227E+00
TH-234	2337.	63.29	6.6388E+00
U-235	3533.	185.71	2.1076E-01
NP-237	2593.	86.48	1.1731E+00
U-237	2406.	59.54	1.1181E+00
NP-238	13.	984.45	1.0288E-01
NP-239	2766.	106.12	4.9688E-01
PU-239	2853.	129.30	1.5594E+03
AM-241	2406.	59.54	1.0725E+00
AM-243	2465.	74.67	3.1810E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 03:16:18.83                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T784-DUP
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2059.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:12.71 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 02:25:30.41
Decayed to:               3-JUN-1995 02:25:30.41
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  EMB
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************
```

Removed by: Em Bartlett

date: 6-3-95

Verified by: B Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.94*	90903	1.52	1323.89	1315	18	0.7		CS-137	126.

Total number of lines in spectrum	1	
Number of unidentified lines	0	
Number of lines tentatively identified by NID	1	100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	1.261E+02	1.261E+02	0.009E+02	0.68	
Total Activity :			1.261E+02	1.261E+02			
Grand Total Activity :			1.261E+02	1.261E+02			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2862.	477.59	2.1701E+00
NA-22	14.	1274.53	3.6744E-02
NA-24	10.	1368.55	3.3317E-02
K-40	117.	1460.75	1.1042E+00
SC-46	23.	1120.55	4.1852E-02
CR-51	2479.	320.08	1.5067E+00
MN-54	29.	834.83	3.5877E-02
CO-56	22.	846.76	3.1834E-02
CO-57	2796.	122.06	1.1823E-01
CO-58	28.	810.78	3.4463E-02
FE-59	16.	1099.25	6.0302E-02
CO-60	17.	1332.50	4.1718E-02
ZN-65	16.	1115.55	6.9264E-02
SE-75	2777.	264.66	2.4073E-01
KR-85	1529.	514.00	4.0287E+01
SR-85	1529.	514.01	1.8219E-01
Y-88	3.	1836.06	2.1303E-02
Y-90	8.	1760.70	1.2360E-01
Y-91	12.	1204.67	1.0976E+01
NB-94	23.	871.09	3.3343E-02
NB-95	24.	765.78	3.0744E-02
ZR-95	28.	756.73	5.9949E-02
RU-103	1756.	497.08	2.0018E-01
RURH-106	623.	621.93	2.6283E+00
AG-108m	26.	722.94	3.3345E-02
CD-109	2540.	88.03	3.8694E+00
AG-110M	1448.	657.76	2.2008E-01
SN-113	2519.	391.69	2.7621E-01
TE-123m	2941.	159.00	1.2134E-01
SB-124	706.	602.73	1.3836E-01
SB-125	3016.	427.89	7.0922E-01
TE-125m	2656.	109.27	3.8199E+01
I-129	2315.	39.60	0.0000E+00
I-131	2439.	364.48	2.0356E-01
XE-131m	2836.	163.93	5.1714E+00
BA-133	2357.	356.02	2.5729E-01
CS-134	675.	604.70	1.3595E-01
CS-136	12.	818.51	2.3239E-02
CS-138	3.	1435.86	4.1814E-02
CE-139	2893.	165.85	1.2870E-01
BA-140	998.	537.31	6.0166E-01
LA-140	3.	1596.21	2.2616E-02
CE-141	2911.	145.44	2.0640E-01
CE-144	2942.	133.51	9.0708E-01
CEPR-144	2942.	133.51	1.8127E+00
EU-152	8.	1408.01	1.4327E-01
EU-154	14.	1274.51	1.0705E-01
EU-155	2524.	86.54	4.3699E-01
HF-181	2366.	482.18	2.5582E-01
TA-182	2433.	67.75	5.9415E-01
HG-203	2541.	279.20	1.7133E-01

Sample ID : S95T784-DUP Acquisition date : 3-JUN-1995 02:25:30

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	717.	569.70	1.3320E-01
TL-208	2571.	277.36	2.2146E+00
PB-210	2356.	46.50	0.0000E+00
BI-212	28.	727.18	4.7650E-01
PB-212	3081.	238.63	3.1675E-01
BI-214	670.	609.31	2.9694E-01
PB-214	2463.	351.92	8.0773E-01
RA-224	3011.	240.99	3.4749E+00
RA-226	3597.	186.10	3.4987E+00
AC-228	31.	911.21	1.5068E-01
TH-228	2551.	84.37	1.1906E+01
TH-229	2532.	88.47	5.6004E-01
U-232	2366.	57.78	2.1911E+02
PA-233	2363.	312.17	3.7725E-01
PA-234M	12.	1001.03	1.3990E+00
TH-234	2324.	63.29	6.6211E+00
U-235	3567.	185.71	2.1175E-01
NP-237	2527.	86.48	1.1583E+00
U-237	2348.	59.54	1.1045E+00
NP-238	17.	984.45	1.1456E-01
NP-239	2588.	106.12	4.8062E-01
PU-239	2888.	129.30	1.5691E+03
AM-241	2348.	59.54	1.0595E+00
AM-243	2513.	74.67	3.2118E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 05:24:06.66                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T854-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2062.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:00.53 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 04:33:30.26
Decayed to:               3-JUN-1995 04:33:30.26
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  EMB
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************
```

Removed by: Em Bauer

date: 6-3-95

Verified by: B Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	611.11	40	5.28	1222.26	1215	16	66.6			

Total number of lines in spectrum	1	
Number of unidentified lines	1	
Number of lines tentatively identified by NID	0	0.00%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	41.	477.59	2.5901E-01
NA-22	6.	1274.53	2.4513E-02
NA-24	6.	1368.55	2.5891E-02
K-40	96.	1460.75	9.9966E-01
SC-46	16.	1120.55	3.5001E-02
CR-51	53.	320.08	2.1957E-01
MN-54	15.	834.83	2.5642E-02
CO-56	24.	846.76	3.3222E-02
CO-57	88.	122.06	2.0977E-02
CO-58	13.	810.78	2.3604E-02
FE-59	8.	1099.25	4.2409E-02
CO-60	7.	1332.50	2.7544E-02
ZN-65	13.	1115.55	6.2034E-02
SE-75	71.	264.66	3.8491E-02
KR-85	41.	514.00	6.5764E+00
SR-85	41.	514.01	2.9659E-02
Y-88	1.	1836.06	1.3173E-02
Y-90	2.	1760.70	6.2987E-02
Y-91	11.	1204.67	1.0269E+01
NB-94	22.	871.09	3.2859E-02
NB-95	13.	765.78	2.2334E-02
ZR-95	18.	756.73	4.8250E-02
RU-103	21.	497.08	2.2052E-02
RURH-106	18.	621.93	4.5223E-01
AG-108m	24.	722.94	3.1815E-02
CD-109	69.	88.03	6.3592E-01
AG-110M	18.	657.76	2.4718E-02
SN-113	37.	391.69	3.3318E-02
TE-123m	76.	159.00	1.9481E-02
SB-124	30.	602.73	2.8459E-02
SB-125	40.	427.89	8.1328E-02
TE-125m	87.	109.27	6.9179E+00
I-129	51.	39.60	0.0000E+00
I-131	50.	364.48	2.9017E-02
XE-131m	75.	163.93	8.4286E-01
BA-133	50.	356.02	3.7568E-02
CS-134	28.	604.70	2.7783E-02
CS-136	16.	818.51	2.6716E-02
CS-137	107.	661.66	6.6791E-02
CS-138	5.	1435.86	5.1388E-02
CE-139	83.	165.85	2.1816E-02
BA-140	35.	537.31	1.1263E-01
LA-140	5.	1596.21	2.6757E-02
CE-141	76.	145.44	3.3271E-02
CE-144	80.	133.51	1.5005E-01
CEPR-144	81.	133.51	2.9997E-01
EU-152	7.	1408.01	1.2954E-01
EU-154	6.	1274.51	7.0991E-02
EU-155	76.	86.54	7.5706E-02
HF-181	32.	482.18	2.9570E-02
TA-182	60.	67.75	9.3614E-02

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
HG-203	57.	279.20	2.5726E-02
BI-207	31.	569.70	2.7578E-02
TL-208	60.	277.36	3.3884E-01
PB-210	61.	46.50	0.0000E+00
BI-212	23.	727.18	4.3201E-01
PB-212	77.	238.63	4.9948E-02
BI-214	48.	609.31	7.9322E-02
PB-214	63.	351.92	1.2936E-01
RA-224	73.	240.99	5.4065E-01
RA-226	77.	186.10	5.1253E-01
AC-228	20.	911.21	1.2133E-01
TH-228	75.	84.37	2.0405E+00
TH-229	66.	88.47	9.0698E-02
U-232	60.	57.78	3.4754E+01
PA-233	41.	312.17	4.9619E-02
PA-234M	15.	1001.03	1.5512E+00
TH-234	63.	63.29	1.0923E+00
U-235	77.	185.71	3.1054E-02
NP-237	75.	86.48	1.9998E-01
U-237	60.	59.54	1.7698E-01
NP-238	13.	984.45	1.0084E-01
NP-239	79.	106.12	8.3834E-02
PU-239	75.	129.30	2.5341E+02
AM-241	60.	59.54	1.6976E-01
AM-243	74.	74.67	5.5023E-02

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 06:26:57.23                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T854-DUP
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2063.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:00.53 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 05:36:21.37
Decayed to:               3-JUN-1995 05:36:21.37
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  EMB
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************
```

Removed by: Lm Bauer

date: 6-3-95

Verified by: Machabee 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	1461.02*	9	2.28	2922.30	2913	21252.1			K-40	0.193

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.000	1.925E-01	1.925E-01	4.853E-01	252.05	BKS
Total Activity :			1.925E-01	1.925E-01			
Grand Total Activity :			1.925E-01	1.925E-01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	31.	477.59	2.2423E-01
NA-22	8.	1274.53	2.7371E-02
NA-24	3.	1368.55	1.8247E-02
SC-46	21.	1120.55	3.9901E-02
CR-51	66.	320.08	2.4658E-01
MN-54	10.	834.83	2.1016E-02
CO-56	18.	846.76	2.8800E-02
CO-57	68.	122.06	1.8497E-02
CO-58	17.	810.78	2.6981E-02
FE-59	10.	1099.25	4.7552E-02
CO-60	8.	1332.50	2.9344E-02
ZN-65	12.	1115.55	5.8627E-02
SE-75	58.	264.66	3.4789E-02
KR-85	62.	514.00	8.0963E+00
SR-85	62.	514.01	3.6586E-02
Y-88	2.	1836.06	1.8630E-02
Y-90	1.	1760.70	5.4380E-02
Y-91	11.	1204.67	1.0350E+01
NB-94	16.	871.09	2.7676E-02
NB-95	22.	765.78	2.9451E-02
ZR-95	16.	756.73	4.5523E-02
RU-103	29.	497.08	2.5842E-02
RURH-106	17.	621.93	4.3705E-01
AG-108m	17.	722.94	2.6585E-02
CD-109	73.	88.03	6.5497E-01
AG-110M	13.	657.76	2.0840E-02
SN-113	36.	391.69	3.3066E-02
TE-123m	80.	159.00	1.9967E-02
SB-124	22.	602.73	2.4665E-02
SB-125	43.	427.89	8.4713E-02
TE-125m	72.	109.27	6.3039E+00
I-129	60.	39.60	0.0000E+00
I-131	37.	364.48	2.4948E-02
XE-131m	88.	163.93	9.0881E-01
BA-133	47.	356.02	3.6484E-02
CS-134	17.	604.70	2.1395E-02
CS-136	16.	818.51	2.6373E-02
CS-137	111.	661.66	6.7963E-02
CS-138	6.	1435.86	5.6293E-02
CE-139	84.	165.85	2.1895E-02
BA-140	23.	537.31	9.0886E-02
LA-140	5.	1596.21	2.7585E-02
CE-141	77.	145.44	3.3664E-02
CE-144	52.	133.51	1.2117E-01
CEPR-144	53.	133.51	2.4230E-01
EU-152	6.	1408.01	1.2407E-01
EU-154	8.	1274.51	8.0127E-02
EU-155	78.	86.54	7.6953E-02
HF-181	30.	482.18	2.8650E-02
TA-182	60.	67.75	9.3035E-02
HG-203	55.	279.20	2.5101E-02

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	23.	569.70	2.3639E-02
TL-208	63.	277.36	3.4613E-01
PB-210	63.	46.50	0.0000E+00
BI-212	21.	727.18	4.0912E-01
PB-212	78.	238.63	5.0439E-02
BI-214	50.	609.31	8.1504E-02
PB-214	74.	351.92	1.3998E-01
RA-224	72.	240.99	5.3836E-01
RA-226	81.	186.10	5.2539E-01
AC-228	18.	911.21	1.1511E-01
TH-228	72.	84.37	2.0045E+00
TH-229	78.	88.47	9.8552E-02
U-232	70.	57.78	3.7621E+01
PA-233	48.	312.17	5.3593E-02
PA-234M	11.	1001.03	1.3003E+00
TH-234	52.	63.29	9.8650E-01
U-235	86.	185.71	3.2800E-02
NP-237	78.	86.48	2.0398E-01
U-237	53.	59.54	1.6591E-01
NP-238	5.	984.45	6.0512E-02
NP-239	68.	106.12	7.7884E-02
PU-239	62.	129.30	2.3040E+02
AM-241	53.	59.54	1.5917E-01
AM-243	69.	74.67	5.3342E-02

LABCORE Data Entry Template for Worklist# 1469

Analyst: EHL **Instrument:** GEA00 2 **Book #** 121B52

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 1 mL sample. R(0)-PPB WHC-SD-WM-DP-154, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				@GEA-02 C060-02	SOLID			N/A	uCi/g
		1 STD				@GEA-02 C060-02E	SOLID			N/A	% Ct. Error
		1 STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1 STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP				@GEA-02 C060-02	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 C060-02	SOLID	N/A			uCi/g
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 C060-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1469

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000766	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000766	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000769	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments: WHC-SD-WM-DP-154, REV. 0

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1469

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 C060-02	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 C060-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000769	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1469

Jean Lambert 06/03/95
Analyst Signature Date

Edward L Udell 6-5-95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		2.12E+01	2.12E-02	1.51			0.00E+00			
Work List	CS-137		2.43E+01	2.43E-02	1.69			0.00E+00			
1469				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1469				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUF's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
EAL				0.00E+00				0.00E+00			
Date											
06/03/95											
Time	REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF										
12:45 AM	AVERAGE = (SAMPLE + DUPLICATE) / 2										
	RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100										

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2 3

762

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.854 < Enter SAMPLE g/L _____ < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	3.20E-02	1.73E-02				ERR			
Work List	CS-137	<	6.93E-02	3.74E-02				ERR			
1469	EU-154	<	5.86E-02	3.16E-02				ERR			
Test Code	EU-155	<	7.85E-02	4.23E-02				ERR			
@GEA-02	AM-241	<	1.89E-01	1.02E-01				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T766				0.00E+00				ERR			
				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
DUP's Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
EAL				0.00E+00				ERR			
Date											
06/03/95											
Time											
12:45 AM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.854 < Enter SAMPLE g/L 1.9976 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	3.88E-02	2.09E-02		<	3.93E-02	1.97E-02		<	2.03E-02	NA
Work List	CS-137		1.91E+01	1.03E+01	1.76		2.09E+01	1.05E+01	1.68		1.04E+01	1.7
1469	EU-154	<	1.24E-01	6.71E-02		<	1.33E-01	6.66E-02		<	6.69E-02	NA
Test Code	EU-155	<	3.05E-01	1.64E-01		<	3.19E-01	1.60E-01		<	1.62E-01	NA
@GEA-02	AM-241	<	6.87E-01	3.71E-01		<	7.09E-01	3.55E-01		<	3.63E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T766				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/95												
Time												
12:45 AM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.0012 < Enter SAMPLE g/L 1.9716 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	2.70E-02	1.35E-02		<	3.04E-02	1.54E-02		<	1.44E-02	NA
Work List	CS-137		1.74E+01	8.69E+00	1.86		1.71E+01	8.65E+00	1.87		8.67E+00	0.5
1469	EU-154	<	1.10E-01	5.49E-02		<	1.24E-01	6.31E-02		<	5.90E-02	NA
Test Code	EU-155	<	2.68E-01	1.34E-01		<	2.68E-01	1.36E-01		<	1.35E-01	NA
@GEA-02	AM-241	<	5.97E-01	2.98E-01		<	5.99E-01	3.04E-01		<	3.01E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S967769				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/95												
Time												
12:45 AM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 3-JUN-1995 07:27:41.28 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	WORKLIST1469-STD
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: Raymond

date: 6.3.95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA2
File Number:	dka300:[spec.GEA2]2g2064.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:08.83 sec

Verified by: DBBachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	3-JUN-1995 06:36:57.39
Decayed to:	3-JUN-1995 06:36:57.39
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	EMB
Background Subtract:	DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	475.09	108	1.63	950.28	948		8108.1			
0	563.45	463	1.38	1126.96	1121	12	27.0		CS-134	5.73
0	569.73	743	1.26	1139.51	1135	11	17.2		CS-134	5.04
0	604.99	4700	1.47	1210.02	1202	16	4.3		CS-134	5.29
0	661.94*	17477	1.50	1323.90	1316	15	1.7		CS-137	24.3
0	796.12	3218	1.57	1592.22	1586	13	4.9		CS-134	5.21
0	802.61	381	1.62	1605.21	1601	11	25.1		CS-134	6.08
0	1173.61	10748	1.88	2347.28	2339	17	2.2		CO-60	21.1
0	1332.88	9743	1.94	2665.91	2656	21	2.1		CO-60	21.2
0	1365.93	95	2.52	2732.04	2725	19	20.5			
0	1401.01	37	1.94	2802.23	2797	14	57.6			

Sample ID : WORKLIST1469-STD Acquisition date : 3-JUN-1995 06:36:57

Total number of lines in spectrum 11
Number of unidentified lines 3
Number of lines tentatively identified by NID 8 72.73%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.116E+01	2.116E+01	0.032E+01	1.51	
CS-134	2.06Y	1.000	5.261E+00	5.261E+00	0.164E+00	3.12	
CS-137	30.00Y	1.000	2.425E+01	2.425E+01	0.041E+01	1.69	
	Total Activity :		5.067E+01	5.067E+01			
	Grand Total Activity :		5.067E+01	5.067E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1199.	477.59	1.4048E+00
NA-22	70.	1274.53	8.1676E-02
NA-24	48.	1368.55	7.3314E-02
K-40	119.	1460.75	1.1111E+00
SC-46	419.	1120.55	1.7906E-01
CR-51	1155.	320.08	1.0286E+00
MN-54	552.	834.83	1.5737E-01
CO-56	563.	846.76	1.6095E-01
CO-57	1393.	122.06	8.3468E-02
CO-58	512.	810.78	1.4865E-01
FE-59	542.	1099.25	3.5408E-01
ZN-65	491.	1115.55	3.8061E-01
SE-75	1457.	264.66	1.7438E-01
KR-85	844.	514.00	2.9926E+01
SR-85	843.	514.01	1.3528E-01
Y-88	17.	1836.06	5.4237E-02
Y-90	12.	1760.70	1.5264E-01
Y-91	151.	1204.67	3.8202E+01
NB-94	618.	871.09	1.7268E-01
NB-95	493.	765.78	1.3853E-01
ZR-95	472.	756.73	2.4568E-01
RU-103	897.	497.08	1.4306E-01
RURH-106	572.	621.93	2.5199E+00
AG-108m	510.	722.94	1.4747E-01
CD-109	1202.	88.03	2.6614E+00
AG-110M	733.	657.76	1.5665E-01
SN-113	1233.	391.69	1.9325E-01
TE-123m	1387.	159.00	8.3335E-02
SB-124	3101.	602.73	2.9007E-01
SB-125	1226.	427.89	4.5216E-01
TE-125m	1267.	109.27	2.6386E+01
I-129	1168.	39.60	0.0000E+00
I-131	1153.	364.48	1.4000E-01
XE-131m	1430.	163.93	3.6727E+00
BA-133	1134.	356.02	1.7848E-01
CS-136	533.	818.51	1.5258E-01
CS-138	25.	1435.86	1.1585E-01
CE-139	1382.	165.85	8.8961E-02
BA-140	759.	537.31	5.2453E-01
LA-140	13.	1596.21	4.5175E-02
CE-141	1439.	145.44	1.4515E-01
CE-144	1385.	133.51	6.2240E-01
CEPR-144	1385.	133.51	1.2437E+00
EU-152	21.	1408.01	2.2957E-01
EU-154	70.	1274.51	2.3702E-01
EU-155	1219.	86.54	3.0376E-01
HF-181	970.	482.18	1.6382E-01
TA-182	1096.	67.75	3.9883E-01
HG-203	1349.	279.20	1.2482E-01
BI-207	1464.	569.70	1.9040E-01
TL-208	1327.	277.36	1.5910E+00

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	1169.	46.50	0.0000E+00
BI-212	529.	727.18	2.0606E+00
PB-212	1618.	238.63	2.2955E-01
BI-214	622.	609.31	2.8605E-01
PB-214	1269.	351.92	5.7936E-01
RA-224	1590.	240.99	2.5255E+00
RA-226	1524.	186.10	2.2775E+00
AC-228	721.	911.21	7.2869E-01
TH-228	1258.	84.37	8.3624E+00
TH-229	1225.	88.47	3.8950E-01
U-232	1082.	57.78	1.4813E+02
PA-233	1294.	312.17	2.7913E-01
PA-234M	544.	1001.03	9.2549E+00
TH-234	1148.	63.29	4.6534E+00
U-235	1552.	185.71	1.3969E-01
NP-237	1223.	86.48	8.0580E-01
U-237	1088.	59.54	7.5194E-01
NP-238	595.	984.45	6.8477E-01
NP-239	1286.	106.12	3.3884E-01
PU-239	1370.	129.30	1.0808E+03
AM-241	1088.	59.54	7.2127E-01
AM-243	1112.	74.67	2.1367E-01

```
********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 09:31:16.32                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:               WORKLIST1469-BLK
Sample Size:             1.00000E-03 LI
Dilution Factor:         1.00000E+00
Conversion LI to LI:     1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:             GEA2
File Number:             dka300:[spec.GEA2]2g2065.cnf
Geometry:                42
Description:
Count Time:              0 00:50:00.00 sec
Real Time:               0 00:50:00.50 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:       3-JUN-1995 08:40:40.16
Decayed to:              3-JUN-1995 08:40:40.16
Standard Deviations:     2
Analysis Library:        ENVGEA
Analyst:                 VR
Background Subtract:     DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
********************************************************************************

Post-NID Peak Search Report
***** No peaks found *****
```

Removed by: Raymond

date: 6.3.95

Verified by: BBMachelor 6/5/95

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	33.	477.59	2.3146E-01
NA-22	4.	1274.53	2.0255E-02
NA-24	5.	1368.55	2.4643E-02
K-40	109.	1460.75	1.0652E+00
SC-46	21.	1120.55	4.0098E-02
CR-51	44.	320.08	2.0150E-01
MN-54	13.	834.83	2.4374E-02
CO-56	17.	846.76	2.7968E-02
CO-57	75.	122.06	1.9322E-02
CO-58	15.	810.78	2.5270E-02
FE-59	13.	1099.25	5.4480E-02
CO-60	10.	1332.50	3.1996E-02
ZN-65	12.	1115.55	5.9076E-02
SE-75	80.	264.66	4.0788E-02
KR-85	47.	514.00	7.0653E+00
SR-85	47.	514.01	3.1908E-02
Y-88	2.	1836.06	1.8630E-02
Y-90	2.	1760.70	5.8841E-02
Y-91	13.	1204.67	1.1202E+01
NB-94	9.	871.09	2.0497E-02
NB-95	16.	765.78	2.4765E-02
ZR-95	14.	756.73	4.2005E-02
RU-103	30.	497.08	2.6310E-02
RURH-106	23.	621.93	5.0518E-01
AG-108m	15.	722.94	2.5075E-02
CD-109	74.	88.03	6.5990E-01
AG-110M	26.	657.76	2.9260E-02
SN-113	45.	391.69	3.7093E-02
TE-123m	80.	159.00	1.9974E-02
SB-124	20.	602.73	2.3540E-02
SB-125	36.	427.89	7.7852E-02
TE-125m	74.	109.27	6.3712E+00
I-129	50.	39.60	0.0000E+00
I-131	33.	364.48	2.3582E-02
XE-131m	93.	163.93	9.3423E-01
BA-133	37.	356.02	3.2133E-02
CS-134	26.	604.70	2.6832E-02
CS-136	16.	818.51	2.6270E-02
CS-137	115.	661.66	6.9279E-02
CS-138	10.	1435.86	7.2673E-02
CE-139	84.	165.85	2.1870E-02
BA-140	25.	537.31	9.5225E-02
LA-140	5.	1596.21	2.7585E-02
CE-141	71.	145.44	3.2258E-02
CE-144	65.	133.51	1.3463E-01
CEPR-144	65.	133.51	2.6904E-01
EU-152	9.	1408.01	1.4803E-01
EU-154	4.	1274.51	5.8573E-02
EU-155	81.	86.54	7.8472E-02
HF-181	32.	482.18	2.9803E-02
TA-182	54.	67.75	8.8343E-02

Sample ID : WORKLIST1469-BLK Acquisition date : 3-JUN-1995 08:40:40

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
HG-203	52.	279.20	2.4547E-02
BI-207	28.	569.70	2.6341E-02
TL-208	57.	277.36	3.2935E-01
PB-210	62.	46.50	0.0000E+00
BI-212	21.	727.18	4.0912E-01
PB-212	73.	238.63	4.8598E-02
BI-214	35.	609.31	6.7928E-02
PB-214	65.	351.92	1.3110E-01
RA-224	71.	240.99	5.3404E-01
RA-226	98.	186.10	5.7648E-01
AC-228	34.	911.21	1.5869E-01
TH-228	77.	84.37	2.0749E+00
TH-229	72.	88.47	9.4254E-02
U-232	56.	57.78	3.3616E+01
PA-233	46.	312.17	5.2817E-02
PA-234M	18.	1001.03	1.6827E+00
TH-234	67.	63.29	1.1260E+00
U-235	93.	185.71	3.4279E-02
NP-237	81.	86.48	2.0766E-01
U-237	75.	59.54	1.9688E-01
NP-238	9.	984.45	8.3370E-02
NP-239	65.	106.12	7.5995E-02
PU-239	76.	129.30	2.5383E+02
AM-241	75.	59.54	1.8886E-01
AM-243	66.	74.67	5.1963E-02

****
* 222-S Laboratory Counting Room 3-JUN-1995 10:44:43.81 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: 95T766-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: Raymond
date: 6.3.95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2066.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:03.16 sec

Verified by: RBMachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 09:54:04.17
Decayed to: 3-JUN-1995 09:54:04.17
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: VR
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.94*	13765	1.52	1323.89	1315	18	1.8		CS-137	19.1
0	1461.06*	12	2.43	2922.39	2914	16	200.6		K-40	0.264

Acquisition date : 3-JUN-1995 09:54:04

Total number of lines in spectrum 2
Number of unidentified lines 0
Number of lines tentatively identified by NID 2 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~2.637E-01~~	~~2.637E-01~~	~~5.289E-01~~	~~200.62~~	BKG
CS-137	30.00Y	1.000	1.910E+01	1.910E+01	0.034E+01	1.76	
	Total Activity :		1.937E+01	1.937E+01			
Grand Total Activity :			1.937E+01	1.937E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	495.	477.59	9.0222E-01
NA-22	19.	1274.53	4.2894E-02
NA-24	3.	1368.55	1.8247E-02
SC-46	24.	1120.55	4.2572E-02
CR-51	501.	320.08	6.7757E-01
MN-54	21.	834.83	3.0758E-02
CO-56	18.	846.76	2.8770E-02
CO-57	1193.	122.06	7.7244E-02
CO-58	24.	810.78	3.1908E-02
FE-59	16.	1099.25	6.0987E-02
CO-60	15.	1332.50	3.8829E-02
ZN-65	14.	1115.55	6.3301E-02
SE-75	582.	264.66	1.1021E-01
KR-85	306.	514.00	1.8013E+01
SR-85	305.	514.01	8.1427E-02
Y-88	1.	1836.06	1.0768E-02
Y-90	4.	1760.70	8.6196E-02
Y-91	9.	1204.67	9.5623E+00
NB-94	27.	871.09	3.6040E-02
NB-95	25.	765.78	3.1421E-02
ZR-95	34.	756.73	6.5847E-02
RU-103	317.	497.08	8.5097E-02
RURH-106	140.	621.93	1.2483E+00
AG-108m	49.	722.94	4.5774E-02
CD-109	1212.	88.03	2.6724E+00
AG-110M	236.	657.76	8.8770E-02
SN-113	463.	391.69	1.1840E-01
TE-123m	902.	159.00	6.7196E-02
SB-124	121.	602.73	5.7255E-02
SB-125	546.	427.89	3.0186E-01
TE-125m	1196.	109.27	2.5635E+01
I-129	792.	39.60	0.0000E+00
I-131	493.	364.48	9.1494E-02
XE-131m	919.	163.93	2.9434E+00
BA-133	458.	356.02	1.1337E-01
CS-134	135.	604.70	6.0732E-02
CS-136	24.	818.51	3.2628E-02
CS-138	9.	1435.86	6.8971E-02
CE-139	902.	165.85	7.1860E-02
BA-140	211.	537.31	2.7658E-01
LA-140	3.	1596.21	2.0288E-02
CE-141	1019.	145.44	1.2214E-01
CE-144	1065.	133.51	5.4587E-01
CEPR-144	1065.	133.51	1.0907E+00
EU-152	8.	1408.01	1.4383E-01
EU-154	19.	1274.51	1.2449E-01
EU-155	1229.	86.54	3.0497E-01
HF-181	396.	482.18	1.0467E-01
TA-182	1090.	67.75	3.9765E-01
HG-203	525.	279.20	7.7870E-02
BI-207	133.	569.70	5.7385E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	529.	277.36	1.0047E+00
PB-210	807.	46.50	0.0000E+00
BI-212	30.	727.18	4.9311E-01
PB-212	683.	238.63	1.4917E-01
BI-214	149.	609.31	1.3984E-01
PB-214	500.	351.92	3.6322E-01
RA-224	695.	240.99	1.6693E+00
RA-226	917.	186.10	1.7662E+00
AC-228	32.	911.21	1.5398E-01
TH-228	1264.	84.37	8.3800E+00
TH-229	1191.	88.47	3.8403E-01
U-232	929.	57.78	1.3729E+02
PA-233	517.	312.17	1.7652E-01
PA-234M	17.	1001.03	1.6410E+00
TH-234	1002.	63.29	4.3480E+00
U-235	927.	185.71	1.0796E-01
NP-237	1233.	86.48	8.0884E-01
U-237	987.	59.54	7.1620E-01
NP-238	15.	984.45	1.0964E-01
NP-239	1186.	106.12	3.2535E-01
PU-239	1086.	129.30	9.6228E+02
AM-241	987.	59.54	6.8700E-01
AM-243	1146.	74.67	2.1689E-01

```
********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 11:59:47.22                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T766-DUP
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2067.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:03.42 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 11:09:05.94
Decayed to:               3-JUN-1995 11:09:05.94
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  VR
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
********************************************************************************
```

Removed by: Raymond

date: 6-3-95

Verified by: Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.96*	15085	1.49	1323.94	1316	16	1.7		CS-137	20.9

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	2.093E+01	2.093E+01	0.035E+01	1.68	
Total Activity :			2.093E+01	2.093E+01			
Grand Total Activity :			2.093E+01	2.093E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	535.	477.59	9.3785E-01
NA-22	22.	1274.53	4.5742E-02
NA-24	11.	1368.55	3.5683E-02
K-40	116.	1460.75	1.0976E+00
SC-46	17.	1120.55	3.6567E-02
CR-51	513.	320.08	6.8539E-01
MN-54	30.	834.83	3.6476E-02
CO-56	24.	846.76	3.3222E-02
CO-57	1267.	122.06	7.9581E-02
CO-58	29.	810.78	3.5153E-02
FE-59	18.	1099.25	6.4868E-02
CO-60	15.	1332.50	3.9311E-02
ZN-65	18.	1115.55	7.3191E-02
SE-75	667.	264.66	1.1801E-01
KR-85	308.	514.00	1.8077E+01
SR-85	307.	514.01	8.1694E-02
Y-88	4.	1836.06	2.6171E-02
Y-90	4.	1760.70	8.9078E-02
Y-91	20.	1204.67	1.3804E+01
NB-94	26.	871.09	3.5533E-02
NB-95	24.	765.78	3.0861E-02
ZR-95	36.	756.73	6.8043E-02
RU-103	343.	497.08	8.8531E-02
RURH-106	150.	621.93	1.2911E+00
AG-108m	41.	722.94	4.1715E-02
CD-109	1338.	88.03	2.8081E+00
AG-110M	271.	657.76	9.5166E-02
SN-113	535.	391.69	1.2729E-01
TE-123m	968.	159.00	6.9597E-02
SB-124	148.	602.73	6.3330E-02
SB-125	525.	427.89	2.9594E-01
TE-125m	1387.	109.27	2.7605E+01
I-129	828.	39.60	0.0000E+00
I-131	485.	364.48	9.0811E-02
XE-131m	1022.	163.93	3.1047E+00
BA-133	536.	356.02	1.2270E-01
CS-134	138.	604.70	6.1432E-02
CS-136	22.	818.51	3.0849E-02
CS-138	8.	1435.86	6.6538E-02
CE-139	1000.	165.85	7.5657E-02
BA-140	217.	537.31	2.8060E-01
LA-140	6.	1596.21	3.0382E-02
CE-141	1121.	145.44	1.2806E-01
CE-144	1160.	133.51	5.6968E-01
CEPR-144	1161.	133.51	1.1385E+00
EU-152	9.	1408.01	1.4803E-01
EU-154	22.	1274.51	1.3302E-01
EU-155	1342.	86.54	3.1862E-01
HF-181	468.	482.18	1.1384E-01
TA-182	1172.	67.75	4.1239E-01
HG-203	638.	279.20	8.5831E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T766-DUP Acquisition date : 3-JUN-1995 11:09:05

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	165.	569.70	6.4006E-02
TL-208	620.	277.36	1.0876E+00
PB-210	860.	46.50	0.0000E+00
BI-212	31.	727.18	5.0225E-01
PB-212	799.	238.63	1.6126E-01
BI-214	179.	609.31	1.5361E-01
PB-214	511.	351.92	3.6725E-01
RA-224	770.	240.99	1.7575E+00
RA-226	1004.	186.10	1.8486E+00
AC-228	31.	911.21	1.5016E-01
TH-228	1344.	84.37	8.6430E+00
TH-229	1329.	88.47	4.0567E-01
U-232	1099.	57.78	1.4929E+02
PA-233	606.	312.17	1.9095E-01
PA-234M	9.	1001.03	1.2069E+00
TH-234	1102.	63.29	4.5597E+00
U-235	997.	185.71	1.1195E-01
NP-237	1346.	86.48	8.4520E-01
U-237	1052.	59.54	7.3944E-01
NP-238	15.	984.45	1.0709E-01
NP-239	1326.	106.12	3.4403E-01
PU-239	1253.	129.30	1.0336E+03
AM-241	1052.	59.54	7.0929E-01
AM-243	1282.	74.67	2.2942E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room    3-JUN-1995 12:56:32.30                       *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T769-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2068.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:02.72 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 12:05:51.18
Decayed to:               3-JUN-1995 12:05:51.18
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  VR
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************
```

Removed by: Raymond

date: 6.3.95

Verified by: B Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.98*	12542	1.50	1323.97	1315	18	1.9		CS-137	17.4
0	1054.92	32	10.14	2109.85	2099	25	54.6			

Acquisition date : 3-JUN-1995 12:05:51

Total number of lines in spectrum	2	
Number of unidentified lines	1	
Number of lines tentatively identified by NID	1	50.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	1.740E+01	1.740E+01	0.032E+01	1.86	
Total Activity :			1.740E+01	1.740E+01			
Grand Total Activity :			1.740E+01	1.740E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	464.	477.59	8.7408E-01
NA-22	15.	1274.53	3.7693E-02
NA-24	5.	1368.55	2.3482E-02
K-40	110.	1460.75	1.0688E+00
SC-46	29.	1120.55	4.7155E-02
CR-51	445.	320.08	6.3860E-01
MN-54	24.	834.83	3.2873E-02
CO-56	20.	846.76	3.0327E-02
CO-57	942.	122.06	6.8623E-02
CO-58	30.	810.78	3.5867E-02
FE-59	10.	1099.25	4.7687E-02
CO-60	7.	1332.50	2.6951E-02
ZN-65	14.	1115.55	6.4609E-02
SE-75	465.	264.66	9.8509E-02
KR-85	275.	514.00	1.7083E+01
SR-85	275.	514.01	7.7224E-02
Y-88	1.	1836.06	1.3173E-02
Y-90	3.	1760.70	7.7144E-02
Y-91	21.	1204.67	1.4279E+01
NB-94	21.	871.09	3.2056E-02
NB-95	27.	765.78	3.2206E-02
ZR-95	19.	756.73	4.9686E-02
RU-103	304.	497.08	8.3329E-02
RURH-106	122.	621.93	1.1642E+00
AG-108m	20.	722.94	2.9497E-02
CD-109	908.	88.03	2.3139E+00
AG-110M	215.	657.76	8.4910E-02
SN-113	394.	391.69	1.0926E-01
TE-123m	738.	159.00	6.0793E-02
SB-124	119.	602.73	5.6815E-02
SB-125	457.	427.89	2.7596E-01
TE-125m	898.	109.27	2.2215E+01
I-129	591.	39.60	0.0000E+00
I-131	392.	364.48	8.1667E-02
XE-131m	758.	163.93	2.6736E+00
BA-133	421.	356.02	1.0874E-01
CS-134	126.	604.70	5.8737E-02
CS-136	16.	818.51	2.6737E-02
CS-138	7.	1435.86	6.0823E-02
CE-139	724.	165.85	6.4389E-02
BA-140	176.	537.31	2.5277E-01
LA-140	6.	1596.21	3.0218E-02
CE-141	791.	145.44	1.0757E-01
CE-144	863.	133.51	4.9139E-01
CEPR-144	863.	133.51	9.8187E-01
EU-152	4.	1408.01	1.0289E-01
EU-154	15.	1274.51	1.0980E-01
EU-155	948.	86.54	2.6788E-01
HF-181	382.	482.18	1.0277E-01
TA-182	816.	67.75	3.4421E-01
HG-203	489.	279.20	7.5129E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T769-SAM Acquisition date : 3-JUN-1995 12:05:51

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	114.	569.70	5.3027E-02
TL-208	474.	277.36	9.5047E-01
PB-210	638.	46.50	0.0000E+00
BI-212	15.	727.18	3.4228E-01
PB-212	597.	238.63	1.3945E-01
BI-214	139.	609.31	1.3542E-01
PB-214	433.	351.92	3.3793E-01
RA-224	579.	240.99	1.5242E+00
RA-226	760.	186.10	1.6082E+00
AC-228	35.	911.21	1.6099E-01
TH-228	922.	84.37	7.1573E+00
TH-229	899.	88.47	3.3362E-01
U-232	709.	57.78	1.1994E+02
PA-233	461.	312.17	1.6659E-01
PA-234M	22.	1001.03	1.8573E+00
TH-234	791.	63.29	3.8620E+00
U-235	745.	185.71	9.6763E-02
NP-237	950.	86.48	7.1016E-01
U-237	746.	59.54	6.2244E-01
NP-238	14.	984.45	1.0669E-01
NP-239	893.	106.12	2.8226E-01
PU-239	820.	129.30	8.3632E+02
AM-241	746.	59.54	5.9705E-01
AM-243	887.	74.67	1.9079E-01

****
* 222-S Laboratory Counting Room 3-JUN-1995 14:04:16.46 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	S95T769-DUP
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: Raymond

date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA2
File Number:	dka300:[spec.GEA2]2g2069.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:02.70 sec

Verified by: RBMachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	3-JUN-1995 13:13:35.46
Decayed to:	3-JUN-1995 13:13:35.46
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	VR
Background Subtract:	DKA300:[SPEC.GEA2]2GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration:	21-MAR-1994 09:31:55.15
Date of last efficiency calibration:	21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.98*	12292	1.48	1323.98	1316	16	1.9		CS-137	17.1

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	1.706E+01	1.706E+01	0.032E+01	1.87	
Total Activity :			1.706E+01	1.706E+01			
Grand Total Activity :			1.706E+01	1.706E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	438.	477.59	8.4876E-01
NA-22	19.	1274.53	4.2842E-02
NA-24	9.	1368.55	3.1675E-02
K-40	111.	1460.75	1.0749E+00
SC-46	21.	1120.55	4.0178E-02
CR-51	463.	320.08	6.5109E-01
MN-54	18.	834.83	2.8048E-02
CO-56	20.	846.76	3.0341E-02
CO-57	874.	122.06	6.6088E-02
CO-58	14.	810.78	2.4483E-02
FE-59	20.	1099.25	6.7249E-02
CO-60	9.	1332.50	3.0354E-02
ZN-65	8.	1115.55	4.7945E-02
SE-75	514.	264.66	1.0361E-01
KR-85	282.	514.00	1.7292E+01
SR-85	281.	514.01	7.8156E-02
Y-88	5.	1836.06	2.9456E-02
Y-90	1.	1760.70	3.8452E-02
Y-91	19.	1204.67	1.3387E+01
NB-94	21.	871.09	3.1708E-02
NB-95	25.	765.78	3.1117E-02
ZR-95	26.	756.73	5.7215E-02
RU-103	296.	497.08	8.2207E-02
RURH-106	119.	621.93	1.1492E+00
AG-108m	32.	722.94	3.6687E-02
CD-109	954.	88.03	2.3711E+00
AG-110M	214.	657.76	8.4674E-02
SN-113	421.	391.69	1.1287E-01
TE-123m	730.	159.00	6.0451E-02
SB-124	127.	602.73	5.8596E-02
SB-125	490.	427.89	2.8574E-01
TE-125m	853.	109.27	2.1652E+01
I-129	598.	39.60	0.0000E+00
I-131	414.	364.48	8.3868E-02
XE-131m	718.	163.93	2.6029E+00
BA-133	390.	356.02	1.0469E-01
CS-134	138.	604.70	6.1355E-02
CS-136	26.	818.51	3.3563E-02
CS-138	6.	1435.86	5.8047E-02
CE-139	692.	165.85	6.2965E-02
BA-140	167.	537.31	2.4630E-01
LA-140	3.	1596.21	2.1367E-02
CE-141	773.	145.44	1.0635E-01
CE-144	808.	133.51	4.7531E-01
CEPR-144	808.	133.51	9.4970E-01
EU-152	3.	1408.01	8.7732E-02
EU-154	19.	1274.51	1.2447E-01
EU-155	949.	86.54	2.6799E-01
HF-181	395.	482.18	1.0459E-01
TA-182	789.	67.75	3.3847E-01
HG-203	477.	279.20	7.4257E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	159.	569.70	6.2799E-02
TL-208	470.	277.36	9.4664E-01
PB-210	616.	46.50	0.0000E+00
BI-212	38.	727.18	5.5133E-01
PB-212	560.	238.63	1.3508E-01
BI-214	130.	609.31	1.3066E-01
PB-214	449.	351.92	3.4423E-01
RA-224	562.	240.99	1.5018E+00
RA-226	735.	186.10	1.5818E+00
AC-228	29.	911.21	1.4518E-01
TH-228	909.	84.37	7.1075E+00
TH-229	964.	88.47	3.4556E-01
U-232	725.	57.78	1.2132E+02
PA-233	438.	312.17	1.6234E-01
PA-234M	25.	1001.03	1.9956E+00
TH-234	807.	63.29	3.9007E+00
U-235	725.	185.71	9.5497E-02
NP-237	950.	86.48	7.1011E-01
U-237	750.	59.54	6.2440E-01
NP-238	13.	984.45	1.0288E-01
NP-239	890.	106.12	2.8176E-01
PU-239	807.	129.30	8.2942E+02
AM-241	750.	59.54	5.9892E-01
AM-243	857.	74.67	1.8760E-01

LABCORE Data Entry Template for Worklist# 1470

Analyst: DPB **Instrument:** GEA00 32 LAD 6-9-95 **Book #** 121B52

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 1 mL sample. R(0)-PPB WHC-SD-WM-DP-154, REV. 0

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000772	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1470

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000772	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000772	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000775	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments: WHC-SD-WM-DP-154, REV. 0

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1470

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 C060-02	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 C060-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000775	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1470

Analyst Signature Date 6/2/95

Analyst Signature Date 6·5·95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		2.12E+01	2.12E-02	1.32			0.00E+00			
Work List	CS-137		2.50E+01	2.50E-02	1.61			0.00E+00			
1470				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1470				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
DPB				0.00E+00				0.00E+00			
Date											
06/02/95											
Time											
10:15 PM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.002 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	2.69E-02	1.34E-02				ERR			
Work List	CS-137	<	6.09E-02	3.04E-02				ERR			
1470	EU-154	<	7.19E-02	3.59E-02				ERR			
Test Code	EU-155	<	5.68E-02	2.84E-02				ERR			
@GEA-02	AM-241	<	1.58E-01	7.88E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T772				0.00E+00				ERR			
				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
DUP's Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
DPB				0.00E+00				ERR			
Date											
06/02/95											
Time											
10:15 PM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.002 < Enter SAMPLE g/L 2.0032 < Enter DUPLICATE g/L

Type	ANALYTE	?	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	?	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	3.54E-02	1.77E-02		<	3.94E-02	1.97E-02		<	1.87E-02	NA
Work List	CS-137		2.85E+01	1.42E+01	1.29		3.04E+01	1.52E+01	1.25		1.47E+01	6.6
1470	EU-154	<	1.05E-01	5.22E-02		<	9.31E-02	4.65E-02		<	4.93E-02	NA
Test Code	EU-155	<	2.52E-01	1.26E-01		<	2.49E-01	1.24E-01		<	1.25E-01	NA
@GEA-02	AM-241	<	6.99E-01	3.49E-01		<	7.09E-01	3.54E-01		<	3.52E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T772				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
DPB				0.00E+00				0.00E+00				
Date												
06/02/95												
Time												
10:15 PM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.976 < Enter SAMPLE g/L 1.9776 < Enter DUPLICATE g/L

Type	ANALYTE	?	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	?	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	3.63E-02	1.84E-02		<	3.10E-02	1.57E-02		<	1.70E-02	NA
Work List	CS-137		1.52E+01	7.70E+00	1.77		1.43E+01	7.25E+00	1.83		7.47E+00	6.0
1470	EU-154	<	9.70E-02	4.91E-02		<	8.70E-02	4.40E-02		<	4.65E-02	NA
Test Code	EU-155	<	2.33E-01	1.18E-01		<	2.28E-01	1.15E-01		<	1.17E-01	NA
@GEA-02	AM-241	<	6.30E-01	3.19E-01		<	6.30E-01	3.18E-01		<	3.19E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S9617775				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP+ Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
DPB				0.00E+00				0.00E+00				
Date												
06/02/95												
Time												
10:15 PM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 06:28:14.83                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:              WORKLIST1470-STD              Removed by:
Sample Size:            1.00000E-03 LI
Dilution Factor:        1.00000E+00
Conversion LI to LI:    1.00000E+00                   _____________________

                                                      date: _____________
      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:            GEA3                          Verified by:
File Number:            dka300:[spec.GEA3]3g3331.cnf
Geometry:               42                            DMachelor 6/5/95
Description:
Count Time:             0 00:50:00.00 sec
Real Time:              0 00:50:09.96 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:      3-JUN-1995 05:37:29.60
Decayed to:             3-JUN-1995 05:37:29.60
Standard Deviations:    2
Analysis Library:       ENVGEA
Analyst:                EMB
Background Subtract:    DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
**********************************************************************************
```

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
8	26.63*	440	1.01	53.83	51	10	21.1	8.75E+00		
8	27.93*	342	1.40	56.43	51	10	36.2			
0	37.26	121	1.82	75.08	72	7	107.0			
0	475.13	140	1.88	950.49	948	8	87.2			
0	563.41	602	1.54	1127.02	1122	11	20.7		CS-134	6.03
0	569.45	1067	1.44	1139.11	1133	12	12.7		CS-134	5.86
0	604.80	5633	1.49	1209.79	1203	14	3.6		CS-134	5.15
0	661.77*	22086	1.56	1323.72	1316	17	1.5		CS-137	25.0
0	795.93	4190	1.63	1592.02	1584	15	4.2		CS-134	5.54
0	802.04	449	1.44	1604.23	1599	12	24.8		CS-134	5.84
0	1173.27	13576	1.88	2346.80	2339	16	1.9		CO-60	21.4
0	1332.49	12029	1.99	2665.35	2655	21	1.9		CO-60	21.1
0	1365.26	105	1.56	2730.93	2724	14	26.9			
0	1400.91	57	1.75	2802.24	2796	15	42.3			

Total number of lines in spectrum 14
Number of unidentified lines 6
Number of lines tentatively identified by NID 8 57.14%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.123E+01	2.123E+01	0.028E+01	1.32	
CS-134	2.06Y	1.000	5.337E+00	5.337E+00	0.142E+00	2.66	
CS-137	30.00Y	1.000	2.496E+01	2.496E+01	0.038E+01	1.51	
	Total Activity :		5.153E+01	5.153E+01			

Grand Total Activity : 5.153E+01 5.153E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1360.	477.59	1.2150E+00
NA-22	86.	1274.53	7.2990E-02
NA-24	60.	1368.55	6.5540E-02
K-40	132.	1460.75	9.3948E-01
SC-46	454.	1120.55	1.5008E-01
CR-51	1359.	320.08	9.1407E-01
MN-54	609.	834.83	1.3489E-01
CO-56	620.	846.76	1.3787E-01
CO-57	1403.	122.06	6.4832E-02
CO-58	592.	810.78	1.3041E-01
FE-59	675.	1099.25	3.1849E-01
ZN-65	582.	1115.55	3.3390E-01
SE-75	1584.	264.66	1.4784E-01
KR-85	926.	514.00	2.5346E+01
SR-85	926.	514.01	1.1460E-01
Y-88	12.	1836.06	3.5747E-02
Y-90	14.	1760.70	1.3112E-01
Y-91	181.	1204.67	3.3571E+01
NB-94	699.	871.09	1.5000E-01
NB-95	594.	765.78	1.2401E-01
ZR-95	592.	756.73	2.2429E-01
RU-103	1083.	497.08	1.2727E-01
RURH-106	721.	621.93	2.3008E+00
AG-108m	556.	722.94	1.2550E-01
CD-109	1245.	88.03	2.0219E+00
AG-110M	879.	657.76	1.3962E-01
SN-113	1370.	391.69	1.6827E-01
TE-123m	1527.	159.00	6.9564E-02
SB-124	4250.	602.73	2.7593E-01
SB-125	1324.	427.89	3.8625E-01
TE-125m	1303.	109.27	2.0341E+01
I-129	1168.	39.60	0.0000E+00
I-131	1314.	364.48	1.2323E-01
XE-131m	1553.	163.93	3.0515E+00
BA-133	1286.	356.02	1.5651E-01
CS-136	627.	818.51	1.3509E-01
CS-138	13.	1435.86	6.6840E-02
CE-139	1533.	165.85	7.4746E-02
BA-140	812.	537.31	4.3873E-01
LA-140	17.	1596.21	4.0284E-02
CE-141	1521.	145.44	1.1790E-01
CE-144	1497.	133.51	5.0680E-01
CEPR-144	1497.	133.51	1.0127E+00
EU-152	21.	1408.01	1.8564E-01
EU-154	87.	1274.51	2.1216E-01
EU-155	1284.	86.54	2.3284E-01
HF-181	1131.	482.18	1.4354E-01
TA-182	1216.	67.75	3.4044E-01
HG-203	1499.	279.20	1.0723E-01
BI-207	1697.	569.70	1.6610E-01
TL-208	1496.	277.36	1.3763E+00

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	1133.	46.50	0.0000E+00
BI-212	573.	727.18	1.7483E+00
PB-212	1796.	238.63	1.9577E-01
BI-214	746.	609.31	2.5467E-01
PB-214	1316.	351.92	4.8560E-01
RA-224	1755.	240.99	2.1483E+00
RA-226	1777.	186.10	1.9740E+00
AC-228	914.	911.21	6.6958E-01
TH-228	1273.	84.37	6.2974E+00
TH-229	1227.	88.47	2.9088E-01
U-232	1122.	57.78	1.5682E+02
PA-233	1444.	312.17	2.4131E-01
PA-234M	629.	1001.03	8.0743E+00
TH-234	1160.	63.29	4.0492E+00
U-235	1766.	185.71	1.1960E-01
NP-237	1288.	86.48	6.1768E-01
U-237	1182.	59.54	7.5202E-01
NP-238	726.	984.45	6.1398E-01
NP-239	1346.	106.12	2.6225E-01
PU-239	1414.	129.30	8.5656E+02
AM-241	1182.	59.54	7.2133E-01
AM-243	1192.	74.67	1.7024E-01

WHC-SD-WM-DP-154, REV. 0

```
********************************************************************************
* 222-S Laboratory Counting Room    3-JUN-1995 07:28:38.73                     *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:              WORKLIST1470-BLK
Sample Size:            1.00000E-03 LI
Dilution Factor:        1.00000E+00
Conversion LI to LI:    1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:            GEA3
File Number:            dka300:[spec.GEA3]3g3332.cnf
Geometry:               42
Description:
Count Time:             0 00:50:00.00 sec
Real Time:              0 00:50:00.49 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:      3-JUN-1995 06:37:59.18
Decayed to:             3-JUN-1995 06:37:59.18
Standard Deviations:    2
Analysis Library:       ENVGEA
Analyst:                EMB
Background Subtract:    DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by: Raymond

date: 6.3.95

Verified by: B Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.71*	54	1.88	1323.60	1316	15	61.7		CS-137	6.087E-02

Acquisition date : 3-JUN-1995 06:37:59

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	6.087E-02	6.087E-02	3.754E-02	61.66	BKG
Total Activity :			6.087E-02	6.087E-02			
Grand Total Activity :			6.087E-02	6.087E-02			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	33.	477.59	1.8919E-01
NA-22	10.	1274.53	2.4788E-02
NA-24	9.	1368.55	2.5403E-02
K-40	116.	1460.75	8.8267E-01
SC-46	20.	1120.55	3.1742E-02
CR-51	54.	320.08	1.8138E-01
MN-54	19.	834.83	2.3881E-02
CO-56	13.	846.76	2.0026E-02
CO-57	73.	122.06	1.4795E-02
CO-58	13.	810.78	1.9297E-02
FE-59	13.	1099.25	4.3454E-02
CO-60	11.	1332.50	2.6865E-02
ZN-65	7.	1115.55	3.6350E-02
SE-75	65.	264.66	2.9846E-02
KR-85	55.	514.00	6.1672E+00
SR-85	55.	514.01	2.7842E-02
Y-88	3.	1836.06	1.8173E-02
Y-90	1.	1760.70	3.5519E-02
Y-91	12.	1204.67	8.5946E+00
NB-94	17.	871.09	2.3711E-02
NB-95	15.	765.78	1.9976E-02
ZR-95	23.	756.73	4.4499E-02
RU-103	43.	497.08	2.5329E-02
RURH-106	20.	621.93	3.8173E-01
AG-108m	21.	722.94	2.4548E-02
CD-109	65.	88.03	4.6147E-01
AG-110M	20.	657.76	2.1269E-02
SN-113	31.	391.69	2.5396E-02
TE-123m	81.	159.00	1.6049E-02
SB-124	18.	602.73	1.8054E-02
SB-125	37.	427.89	6.4410E-02
TE-125m	80.	109.27	5.0330E+00
I-129	61.	39.60	0.0000E+00
I-131	46.	364.48	2.2942E-02
XE-131m	65.	163.93	6.2267E-01
BA-133	41.	356.02	2.7841E-02
CS-134	16.	604.70	1.7219E-02
CS-136	15.	818.51	2.1091E-02
CS-138	3.	1435.86	3.1942E-02
CE-139	67.	165.85	1.5636E-02
BA-140	25.	537.31	7.6205E-02
LA-140	4.	1596.21	2.0053E-02
CE-141	74.	145.44	2.6091E-02
CE-144	62.	133.51	1.0298E-01
CEPR-144	62.	133.51	2.0581E-01
EU-152	7.	1408.01	1.0629E-01
EU-154	10.	1274.51	7.1871E-02
EU-155	76.	86.54	5.6832E-02
HF-181	23.	482.18	2.0572E-02
TA-182	57.	67.75	7.3754E-02
HG-203	60.	279.20	2.1461E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : WORKLIST1470-BLK Acquisition date : 3-JUN-1995 06:37:59

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	26.	569.70	2.0592E-02
TL-208	48.	277.36	2.4678E-01
PB-210	52.	46.50	0.0000E+00
BI-212	20.	727.18	3.2543E-01
PB-212	86.	238.63	4.2888E-02
BI-214	41.	609.31	5.9964E-02
PB-214	73.	351.92	1.1459E-01
RA-224	85.	240.99	4.7207E-01
RA-226	79.	186.10	4.1689E-01
AC-228	43.	911.21	1.4446E-01
TH-228	72.	84.37	1.5019E+00
TH-229	56.	88.47	6.1973E-02
U-232	51.	57.78	3.3411E+01
PA-233	40.	312.17	4.0407E-02
PA-234M	28.	1001.03	1.6901E+00
TH-234	59.	63.29	9.1103E-01
U-235	77.	185.71	2.4896E-02
NP-237	78.	86.48	1.5182E-01
U-237	57.	59.54	1.6443E-01
NP-238	12.	984.45	7.8456E-02
NP-239	71.	106.12	6.0343E-02
PU-239	77.	129.30	2.0035E+02
AM-241	57.	59.54	1.5771E-01
AM-243	75.	74.67	4.2746E-02

WHC-SD-WM-DP-154, REV. 0

****
* 222-S Laboratory Counting Room 3-JUN-1995 09:32:48.48 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T772-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: Raymond
date: 6.3.95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3333.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:04.39 sec

Verified by: Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 08:42:06.49
Decayed to: 3-JUN-1995 08:42:06.49
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: VR
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
6	26.59*	337	0.96	53.77	51	13	24.8	1.48E+01		
6	27.81*	372	1.31	56.20	51	13	29.9			
0	661.77*	25188	1.52	1323.71	1317	15	1.3		CS-137	28.5

Acquisition date : 3-JUN-1995 08:42:06

Total number of lines in spectrum 3
Number of unidentified lines 2
Number of lines tentatively identified by NID 1 33.33%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	2.847E+01	2.847E+01	0.037E+01	1.29	
Total Activity :			2.847E+01	2.847E+01			
Grand Total Activity :			2.847E+01	2.847E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	867.	477.59	9.7002E-01
NA-22	21.	1274.53	3.5969E-02
NA-24	4.	1368.55	1.6563E-02
K-40	142.	1460.75	9.7642E-01
SC-46	20.	1120.55	3.1417E-02
CR-51	733.	320.08	6.7107E-01
MN-54	26.	834.83	2.8089E-02
CO-56	23.	846.76	2.6560E-02
CO-57	1442.	122.06	6.5710E-02
CO-58	19.	810.78	2.3369E-02
FE-59	16.	1099.25	4.8548E-02
CO-60	19.	1332.50	3.5378E-02
ZN-65	13.	1115.55	5.0326E-02
SE-75	883.	264.66	1.1037E-01
KR-85	466.	514.00	1.7982E+01
SR-85	466.	514.01	8.1315E-02
Y-88	5.	1836.06	2.3461E-02
Y-90	4.	1760.70	7.2930E-02
Y-91	14.	1204.67	9.3843E+00
NB-94	26.	871.09	2.8737E-02
NB-95	29.	765.78	2.7385E-02
ZR-95	36.	756.73	5.4969E-02
RU-103	490.	497.08	8.5668E-02
RURH-106	164.	621.93	1.0970E+00
AG-108m	39.	722.94	3.3119E-02
CD-109	1508.	88.03	2.2257E+00
AG-110M	409.	657.76	9.5256E-02
SN-113	734.	391.69	1.2314E-01
TE-123m	1214.	159.00	6.2022E-02
SB-124	195.	602.73	5.9108E-02
SB-125	813.	427.89	3.0254E-01
TE-125m	1409.	109.27	2.1152E+01
I-129	951.	39.60	0.0000E+00
I-131	725.	364.48	9.1521E-02
XE-131m	1156.	163.93	2.6327E+00
BA-133	704.	356.02	1.1582E-01
CS-134	183.	604.70	5.7475E-02
CS-136	27.	818.51	2.7852E-02
CS-138	10.	1435.86	5.9013E-02
CE-139	1164.	165.85	6.5127E-02
BA-140	312.	537.31	2.7173E-01
LA-140	4.	1596.21	1.9736E-02
CE-141	1225.	145.44	1.0581E-01
CE-144	1346.	133.51	4.8062E-01
CEPR-144	1346.	133.51	9.6032E-01
EU-152	10.	1408.01	1.2699E-01
EU-154	21.	1274.51	1.0450E-01
EU-155	1509.	86.54	2.5242E-01
HF-181	582.	482.18	1.0298E-01
TA-182	1216.	67.75	3.4044E-01
HG-203	842.	279.20	8.0366E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	193.	569.70	5.5997E-02
TL-208	810.	277.36	1.0124E+00
PB-210	891.	46.50	0.0000E+00
BI-212	36.	727.18	4.3740E-01
PB-212	1049.	238.63	1.4963E-01
BI-214	206.	609.31	1.3386E-01
PB-214	678.	351.92	3.4819E-01
RA-224	1025.	240.99	1.6419E+00
RA-226	1261.	186.10	1.6627E+00
AC-228	36.	911.21	1.3334E-01
TH-228	1380.	84.37	6.5566E+00
TH-229	1499.	88.47	3.2160E-01
U-232	1090.	57.78	1.5456E+02
PA-233	749.	312.17	1.7378E-01
PA-234M	20.	1001.03	1.4234E+00
TH-234	1210.	63.29	4.1347E+00
U-235	1242.	185.71	1.0029E-01
NP-237	1504.	86.48	6.6746E-01
U-237	1110.	59.54	7.2875E-01
NP-238	16.	984.45	9.0903E-02
NP-239	1423.	106.12	2.6973E-01
PU-239	1324.	129.30	8.2895E+02
AM-241	1110.	59.54	6.9900E-01
AM-243	1358.	74.67	1.8168E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 10:46:07.69                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T772-DUP
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3334.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:04.63 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 09:55:26.67
Decayed to:               3-JUN-1995 09:55:26.67
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  VR
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
**********************************************************************************
```

Removed by: Raymond

date: 6.5.95

Verified by: Bmachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
9	26.83*	594	1.29	54.24	51	12	14.3	2.05E+01		
9	28.79*	197	1.31	58.17	51	12	59.8		I-129	0.000E+00
0	661.75*	26931	1.59	1323.68	1316	16	1.2		CS-137	30.4
0	1332.72	15	1.29	2665.81	2659	13	97.7			

Total number of lines in spectrum 4
Number of unidentified lines 1
Number of lines tentatively identified by NID 3 75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	~~BKG~~
CS-137	30.00Y	1.000	3.044E+01	3.044E+01	0.038E+01	1.25	
	Total Activity :		3.044E+01	3.044E+01			
	Grand Total Activity :		3.044E+01	3.044E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	889.	477.59	9.8230E-01
NA-22	17.	1274.53	3.1982E-02
NA-24	8.	1368.55	2.3677E-02
K-40	140.	1460.75	9.6826E-01
SC-46	22.	1120.55	3.2769E-02
CR-51	753.	320.08	6.8037E-01
MN-54	14.	834.83	2.0293E-02
CO-56	12.	846.76	1.8942E-02
CO-57	1560.	122.06	6.8359E-02
CO-58	28.	810.78	2.8444E-02
FE-59	19.	1099.25	5.2824E-02
CO-60	23.	1332.50	3.9404E-02
ZN-65	16.	1115.55	5.5109E-02
SE-75	903.	264.66	1.1163E-01
KR-85	475.	514.00	1.8164E+01
SR-85	475.	514.01	8.2098E-02
Y-88	5.	1836.06	2.3354E-02
Y-90	3.	1760.70	6.3159E-02
Y-91	19.	1204.67	1.0778E+01
NB-94	33.	871.09	3.2382E-02
NB-95	18.	765.78	2.1663E-02
ZR-95	32.	756.73	5.2225E-02
RU-103	572.	497.08	9.2532E-02
RURH-106	163.	621.93	1.0937E+00
AG-108m	32.	722.94	3.0024E-02
CD-109	1462.	88.03	2.1911E+00
AG-110M	460.	657.76	1.0102E-01
SN-113	791.	391.69	1.2787E-01
TE-123m	1229.	159.00	6.2408E-02
SB-124	208.	602.73	6.1049E-02
SB-125	898.	427.89	3.1808E-01
TE-125m	1520.	109.27	2.1970E+01
I-131	764.	364.48	9.3979E-02
XE-131m	1216.	163.93	2.7006E+00
BA-133	776.	356.02	1.2161E-01
CS-134	211.	604.70	6.1804E-02
CS-136	24.	818.51	2.6199E-02
CS-138	7.	1435.86	4.7386E-02
CE-139	1200.	165.85	6.6140E-02
BA-140	338.	537.31	2.8312E-01
LA-140	3.	1596.21	1.7092E-02
CE-141	1326.	145.44	1.1007E-01
CE-144	1407.	133.51	4.9138E-01
CEPR-144	1407.	133.51	9.8186E-01
EU-152	8.	1408.01	1.1384E-01
EU-154	17.	1274.51	9.3142E-02
EU-155	1469.	86.54	2.4909E-01
HF-181	752.	482.18	1.1701E-01
TA-182	1265.	67.75	3.4719E-01
HG-203	813.	279.20	7.8951E-02
BI-207	221.	569.70	5.9939E-02

WHC-SD-WM-DP-154, REV.0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	879.	277.36	1.0549E+00
PB-210	907.	46.50	0.0000E+00
BI-212	27.	727.18	3.7706E-01
PB-212	1077.	238.63	1.5159E-01
BI-214	223.	609.31	1.3908E-01
PB-214	768.	351.92	3.7075E-01
RA-224	1062.	240.99	1.6711E+00
RA-226	1368.	186.10	1.7321E+00
AC-228	23.	911.21	1.0681E-01
TH-228	1474.	84.37	6.7763E+00
TH-229	1453.	88.47	3.1656E-01
U-232	1096.	57.78	1.5499E+02
PA-233	850.	312.17	1.8518E-01
PA-234M	15.	1001.03	1.2289E+00
TH-234	1217.	63.29	4.1466E+00
U-235	1356.	185.71	1.0481E-01
NP-237	1474.	86.48	6.6079E-01
U-237	1144.	59.54	7.3961E-01
NP-238	14.	984.45	8.5438E-02
NP-239	1449.	106.12	2.7213E-01
PU-239	1356.	129.30	8.3892E+02
AM-241	1144.	59.54	7.0945E-01
AM-243	1339.	74.67	1.8044E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 12:00:23.21                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T775-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3335.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:03.07 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 11:09:43.19
Decayed to:               3-JUN-1995 11:09:43.19
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  VR
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
**********************************************************************************
```

Removed by: Raymond

date: 6-3-95

Verified by: B Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	27.65*	715	2.79	55.89	51	12	19.2			
0	661.76*	13455	1.60	1323.69	1315	18	1.8		CS-137	15.2
0	1460.61*	20	1.46	2921.70	2914	15	133.3		K-40	0.349

Total number of lines in spectrum 3
Number of unidentified lines 1
Number of lines tentatively identified by NID 2 66.67%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.493E-01~~	~~3.493E-01~~	~~4.650E-01~~	~~133.34~~	BKG
CS-137	30.00Y	1.000	1.521E+01	1.521E+01	0.027E+01	1.77	
	Total Activity :		1.556E+01	1.556E+01			
	Grand Total Activity :		1.556E+01	1.556E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	465.	477.59	7.1065E-01
NA-22	18.	1274.53	3.3460E-02
NA-24	6.	1368.55	2.0425E-02
SC-46	28.	1120.55	3.6978E-02
CR-51	429.	320.08	5.1348E-01
MN-54	25.	834.83	2.7451E-02
CO-56	21.	846.76	2.5611E-02
CO-57	1181.	122.06	5.9470E-02
CO-58	21.	810.78	2.4376E-02
FE-59	14.	1099.25	4.6452E-02
CO-60	20.	1332.50	3.6302E-02
ZN-65	12.	1115.55	4.7795E-02
SE-75	626.	264.66	9.2926E-02
KR-85	272.	514.00	1.3745E+01
SR-85	272.	514.01	6.2114E-02
Y-88	1.	1836.06	1.0492E-02
Y-90	11.	1760.70	1.1579E-01
Y-91	15.	1204.67	9.7034E+00
NB-94	16.	871.09	2.2974E-02
NB-95	35.	765.78	3.0219E-02
ZR-95	36.	756.73	5.5541E-02
RU-103	294.	497.08	6.6353E-02
RURH-106	101.	621.93	8.6103E-01
AG-108m	29.	722.94	2.8882E-02
CD-109	1272.	88.03	2.0440E+00
AG-110M	209.	657.76	6.8136E-02
SN-113	452.	391.69	9.6628E-02
TE-123m	930.	159.00	5.4290E-02
SB-124	118.	602.73	4.5925E-02
SB-125	466.	427.89	2.2903E-01
TE-125m	1219.	109.27	1.9676E+01
I-129	699.	39.60	0.0000E+00
I-131	477.	364.48	7.4244E-02
XE-131m	927.	163.93	2.3577E+00
BA-133	456.	356.02	9.3169E-02
CS-134	109.	604.70	4.4434E-02
CS-136	21.	818.51	2.4693E-02
CS-138	4.	1435.86	3.6898E-02
CE-139	876.	165.85	5.6497E-02
BA-140	201.	537.31	2.1802E-01
LA-140	5.	1596.21	2.2350E-02
CE-141	998.	145.44	9.5521E-02
CE-144	1114.	133.51	4.3725E-01
CEPR-144	1114.	133.51	8.7381E-01
EU-152	13.	1408.01	1.4476E-01
EU-154	18.	1274.51	9.6996E-02
EU-155	1289.	86.54	2.3331E-01
HF-181	414.	482.18	8.6831E-02
TA-182	1103.	67.75	3.2412E-01
HG-203	555.	279.20	6.5227E-02
BI-207	134.	569.70	4.6753E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	550.	277.36	8.3471E-01
PB-210	664.	46.50	0.0000E+00
BI-212	33.	727.18	4.2148E-01
PB-212	702.	238.63	1.2240E-01
BI-214	148.	609.31	1.1361E-01
PB-214	476.	351.92	2.9161E-01
RA-224	663.	240.99	1.3210E+00
RA-226	928.	186.10	1.4264E+00
AC-228	27.	911.21	1.1550E-01
TH-228	1283.	84.37	6.3215E+00
TH-229	1285.	88.47	2.9774E-01
U-232	885.	57.78	1.3923E+02
PA-233	467.	312.17	1.3724E-01
PA-234M	20.	1001.03	1.4253E+00
TH-234	1024.	63.29	3.8044E+00
U-235	922.	185.71	8.6428E-02
NP-237	1294.	86.48	6.1912E-01
U-237	901.	59.54	6.5645E-01
NP-238	17.	984.45	9.4219E-02
NP-239	1163.	106.12	2.4380E-01
PU-239	1137.	129.30	7.6812E+02
AM-241	901.	59.54	6.2966E-01
AM-243	1251.	74.67	1.7436E-01

****
* 222-S Laboratory Counting Room 3-JUN-1995 12:57:08.58 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	S95T775-DUP
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: Raymond
date: 6.3.95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA3
File Number:	dka300:[spec.GEA3]3g3336.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:02.97 sec

Verified by: Bmacheber 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	3-JUN-1995 12:06:23.89
Decayed to:	3-JUN-1995 12:06:23.89
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	VR
Background Subtract:	DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
8	26.83*	377	1.21	54.25	51	16	22.4	1.54E+01		
8	28.91*	179	1.19	58.41	51	16	52.5		I-129	0.000E+00
0	33.60	83	1.40	67.77	66	5	97.5			
0	661.75*	12685	1.57	1323.67	1317	14	1.8		CS-137	14.3

Total number of lines in spectrum 4
Number of unidentified lines 2
Number of lines tentatively identified by NID 2 50.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	BKG
CS-137	30.00Y	1.000	1.434E+01	1.434E+01	0.026E+01	1.83	
	Total Activity :		1.434E+01	1.434E+01			
	Grand Total Activity :		1.434E+01	1.434E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	473.	477.59	7.1643E-01
NA-22	15.	1274.53	2.9977E-02
NA-24	3.	1368.55	1.4215E-02
K-40	140.	1460.75	9.6984E-01
SC-46	19.	1120.55	3.0369E-02
CR-51	440.	320.08	5.1996E-01
MN-54	25.	834.83	2.7194E-02
CO-56	29.	846.76	2.9868E-02
CO-57	1113.	122.06	5.7749E-02
CO-58	25.	810.78	2.6782E-02
FE-59	12.	1099.25	4.2171E-02
CO-60	15.	1332.50	3.1040E-02
ZN-65	12.	1115.55	4.7056E-02
SE-75	519.	264.66	8.4609E-02
KR-85	253.	514.00	1.3263E+01
SR-85	253.	514.01	5.9940E-02
Y-88	5.	1836.06	2.3407E-02
Y-90	1.	1760.70	3.6465E-02
Y-91	17.	1204.67	1.0402E+01
NB-94	24.	871.09	2.8025E-02
NB-95	23.	765.78	2.4426E-02
ZR-95	35.	756.73	5.4587E-02
RU-103	313.	497.08	6.8383E-02
RURH-106	94.	621.93	8.3238E-01
AG-108m	37.	722.94	3.2417E-02
CD-109	1234.	88.03	2.0130E+00
AG-110M	242.	657.76	7.3321E-02
SN-113	416.	391.69	9.2675E-02
TE-123m	958.	159.00	5.5098E-02
SB-124	119.	602.73	4.6246E-02
SB-125	470.	427.89	2.2999E-01
TE-125m	1228.	109.27	1.9746E+01
I-131	435.	364.48	7.0920E-02
XE-131m	842.	163.93	2.2469E+00
BA-133	440.	356.02	9.1512E-02
CS-134	117.	604.70	4.6038E-02
CS-136	24.	818.51	2.6634E-02
CS-138	9.	1435.86	5.4083E-02
CE-139	881.	165.85	5.6660E-02
BA-140	186.	537.31	2.0973E-01
LA-140	6.	1596.21	2.3487E-02
CE-141	939.	145.44	9.2612E-02
CE-144	1075.	133.51	4.2956E-01
CEPR-144	1075.	133.51	8.5839E-01
EU-152	4.	1408.01	8.1343E-02
EU-154	15.	1274.51	8.6972E-02
EU-155	1229.	86.54	2.2779E-01
HF-181	358.	482.18	8.0713E-02
TA-182	1038.	67.75	3.1446E-01
HG-203	512.	279.20	6.2645E-02
BI-207	121.	569.70	4.4436E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	499.	277.36	7.9518E-01
PB-210	649.	46.50	0.0000E+00
BI-212	36.	727.18	4.4106E-01
PB-212	667.	238.63	1.1932E-01
BI-214	115.	609.31	9.9818E-02
PB-214	455.	351.92	2.8514E-01
RA-224	668.	240.99	1.3252E+00
RA-226	882.	186.10	1.3904E+00
AC-228	28.	911.21	1.1622E-01
TH-228	1243.	84.37	6.2211E+00
TH-229	1230.	88.47	2.9127E-01
U-232	816.	57.78	1.3373E+02
PA-233	459.	312.17	1.3609E-01
PA-234M	16.	1001.03	1.2892E+00
TH-234	985.	63.29	3.7303E+00
U-235	871.	185.71	8.3964E-02
NP-237	1227.	86.48	6.0302E-01
U-237	901.	59.54	6.5637E-01
NP-238	16.	984.45	9.1720E-02
NP-239	1240.	106.12	2.5171E-01
PU-239	1091.	129.30	7.5253E+02
AM-241	901.	59.54	6.2961E-01
AM-243	1149.	74.67	1.6713E-01

LABCORE Data Entry Template for Worklist# 1471

Analyst: EAL **Instrument:** GEA00 2 **Book #** 12/B52

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 1 mL sample. R(0)-PPB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000778	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

WHC-SD-WM-DP-154, REV. 0

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1471

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000778	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000778	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000781	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1471

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	C060-02	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	C060-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	CS13702	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	EU15402	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	EU15502	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	AM24102	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000781	0	F	@GEA-02	AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1471

Kevin Lambert 06/03/95
Analyst Signature Date

Sharon L Walsh 6-5-95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		2.09E+01	2.09E-02	1.51			0.00E+00			
Work List	CS-137		2.42E+01	2.42E-02	1.72			0.00E+00			
1471				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1471				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
EAL				0.00E+00				0.00E+00			
Date											
06/03/95											
Time											
01:29 AM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

824

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=mCi/mL, 4=µCi/g

1.8624 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %
BLANK	CO-60	<	3.16E-02	1.69E-02	
Work List	CS-137	<	6.78E-02	3.64E-02	
1471	EU-154	<	8.02E-02	4.31E-02	
Test Code	EU-155	<	6.60E-02	3.54E-02	
@GEA-02	AM-241	<	1.63E-01	8.74E-02	
Matrix				0.00E+00	
SOLID				0.00E+00	
Sample #				0.00E+00	
S95T778				0.00E+00	
				0.00E+00	
Digest DF				0.00E+00	
1				0.00E+00	
				0.00E+00	
DUP's Digest DF				0.00E+00	
1				0.00E+00	
				0.00E+00	
Instrument Code				0.00E+00	
WC38931				0.00E+00	
Analyst				0.00E+00	
EAL				0.00E+00	
Date					
06/03/95					
Time					
01:29 AM					

? <	DUPLICATE µCi/L	REPORT µCi/g
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR
		ERR

COUNTING ERROR %	AVERAGE µCi/g	RPD

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

825

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.8624 < Enter SAMPLE g/L 1.9512 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	3.37E-02	1.81E-02		<	2.11E-02	1.08E-02		<	1.45E-02	NA
Work List	CS-137		2.78E+01	1.49E+01	1.46		2.63E+01	1.35E+01	1.49		1.42E+01	10.5
1471	EU-154	<	9.40E-02	5.05E-02		<	9.51E-02	4.88E-02		<	4.96E-02	NA
Test Code	EU-155	<	2.72E-01	1.46E-01		<	2.68E-01	1.38E-01		<	1.42E-01	NA
@GEA-02	AM-241	<	6.23E-01	3.35E-01		<	6.16E-01	3.16E-01		<	3.25E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S951778				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/96												
Time												
01:29 AM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.054 < Enter SAMPLE g/L 2.0924 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE/DUPLICATE	CO60	<	4.19E-02	2.04E-02		<	3.98E-02	1.90E-02		<	1.97E-02	NA
Work List	CS137		1.94E+01	9.44E+00	1.76		1.96E+01	9.37E+00	1.75		9.41E+00	0.8
1471	EU154	<	1.45E-01	7.06E-02		<	1.53E-01	7.31E-02		<	7.19E-02	NA
Test Code	EU155	<	3.40E-01	1.66E-01		<	3.53E-01	1.69E-01		<	1.67E-01	NA
@GEA-02	AM241	<	7.53E-01	3.67E-01		<	7.69E-01	3.68E-01		<	3.67E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T781				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/95												
Time												
01:29 AM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 3-JUN-1995 15:18:16.63 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID: WORKLIST1471-STD
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: Raymond
date: 6.3.95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2071.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:08.76 sec

Verified by: Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time: 3-JUN-1995 14:27:33.54
Decayed to: 3-JUN-1995 14:27:33.54
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: VR
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61
****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	563.27	359	1.51	1126.59	1123	9	28.9		CS-134	4.44
0	569.72	768	1.47	1139.49	1134	11	16.5		CS-134	5.20
0	605.05	4480	1.52	1210.14	1202	16	4.6		CS-134	5.04
0	661.97*	17428	1.52	1323.95	1315	17	1.7		CS-137	24.2
0	796.22	3176	1.55	1592.42	1584	15	5.3		CS-134	5.14
0	802.03	369	1.37	1604.04	1599	11	27.5		CS-134	5.88
0	1173.63	10576	1.90	2347.32	2339	16	2.1		CO-60	20.8
0	1332.94	9643	1.91	2666.04	2657	18	2.1		CO-60	21.0
0	1365.88	93	2.17	2731.95	2722	19	37.9			
0	1401.14	28	1.87	2802.49	2795	13	79.3			
0	1461.58*	14	2.28	2923.43	2915	17	163.8		K-40	0.302

Total number of lines in spectrum 11
Number of unidentified lines 2
Number of lines tentatively identified by NID 9 81.82%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.022E-01~~	~~3.022E-01~~	~~4.951E-01~~	~~163.81~~	~~K~~
CO-60	5.27Y	1.000	2.088E+01	2.088E+01	0.031E+01	1.51	
CS-134	2.06Y	1.000	5.086E+00	5.086E+00	0.170E+00	3.34	
CS-137	30.00Y	1.000	2.419E+01	2.419E+01	0.042E+01	1.72	
	Total Activity :		5.046E+01	5.046E+01			

WHC-SD-WM-DP-154, REV. 0

Grand Total Activity : 5.046E+01 5.046E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : WORKLIST1471-STD Acquisition date : 3-JUN-1995 14:27:33

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1153.	477.59	1.3776E+00
NA-22	78.	1274.53	8.6067E-02
NA-24	62.	1368.55	8.2844E-02
SC-46	448.	1120.55	1.8523E-01
CR-51	1175.	320.08	1.0374E+00
MN-54	548.	834.83	1.5683E-01
CO-56	587.	846.76	1.6434E-01
CO-57	1332.	122.06	8.1608E-02
CO-58	514.	810.78	1.4893E-01
FE-59	532.	1099.25	3.5093E-01
ZN-65	513.	1115.55	3.8928E-01
SE-75	1415.	264.66	1.7181E-01
KR-85	832.	514.00	2.9712E+01
SR-85	831.	514.01	1.3432E-01
Y-88	12.	1836.06	4.5633E-02
Y-90	15.	1760.70	1.7505E-01
Y-91	148.	1204.67	3.7846E+01
NB-94	591.	871.09	1.6887E-01
NB-95	509.	765.78	1.4078E-01
ZR-95	483.	756.73	2.4838E-01
RU-103	894.	497.08	1.4285E-01
RURH-106	571.	621.93	2.5176E+00
AG-108m	476.	722.94	1.4239E-01
CD-109	1184.	88.03	2.6421E+00
AG-110M	699.	657.76	1.5297E-01
SN-113	1203.	391.69	1.9086E-01
TE-123m	1375.	159.00	8.2964E-02
SB-124	2874.	602.73	2.7925E-01
SB-125	1183.	427.89	4.4416E-01
TE-125m	1227.	109.27	2.5962E+01
I-129	1167.	39.60	0.0000E+00
I-131	1202.	364.48	1.4292E-01
XE-131m	1458.	163.93	3.7086E+00
BA-133	1171.	356.02	1.8137E-01
CS-136	570.	818.51	1.5785E-01
CS-138	13.	1435.86	8.3121E-02
CE-139	1456.	165.85	9.1297E-02
BA-140	753.	537.31	5.2239E-01
LA-140	10.	1596.21	3.9709E-02
CE-141	1389.	145.44	1.4260E-01
CE-144	1370.	133.51	6.1899E-01
CEPR-144	1369.	133.51	1.2367E+00
EU-152	17.	1408.01	2.0780E-01
EU-154	78.	1274.51	2.4986E-01
EU-155	1188.	86.54	2.9977E-01
HF-181	1023.	482.18	1.6824E-01
TA-182	1113.	67.75	4.0186E-01
HG-203	1373.	279.20	1.2596E-01
BI-207	1491.	569.70	1.9213E-01
TL-208	1369.	277.36	1.6157E+00
PB-210	1121.	46.50	0.0000E+00

WHC-SD-WM-DP-154, REV. 0

Sample ID : WORKLIST1471-STD Acquisition date : 3-JUN-1995 14:27:33

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-212	473.	727.18	1.9489E+00
PB-212	1550.	238.63	2.2467E-01
BI-214	636.	609.31	2.8917E-01
PB-214	1226.	351.92	5.6941E-01
RA-224	1547.	240.99	2.4911E+00
RA-226	1631.	186.10	2.3558E+00
AC-228	687.	911.21	7.1109E-01
TH-228	1145.	84.37	7.9780E+00
TH-229	1186.	88.47	3.8329E-01
U-232	1109.	57.78	1.5002E+02
PA-233	1273.	312.17	2.7689E-01
PA-234M	601.	1001.03	9.7275E+00
TH-234	1120.	63.29	4.5958E+00
U-235	1651.	185.71	1.4406E-01
NP-237	1188.	86.48	7.9403E-01
U-237	1138.	59.54	7.6881E-01
NP-238	567.	984.45	6.6801E-01
NP-239	1259.	106.12	3.3521E-01
PU-239	1399.	129.30	1.0919E+03
AM-241	1138.	59.54	7.3744E-01
AM-243	1151.	74.67	2.1736E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 16:11:43.37                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:               WORKLIST1471-BLK
Sample Size:             1.00000E-03 LI
Dilution Factor:         1.00000E+00
Conversion LI to LI:     1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:             GEA2
File Number:             dka300:[spec.GEA2]2g2072.cnf
Geometry:                42
Description:
Count Time:              0 00:50:00.00 sec
Real Time:               0 00:50:00.52 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:       3-JUN-1995 15:21:07.32
Decayed to:              3-JUN-1995 15:21:07.32
Standard Deviations:     2
Analysis Library:        ENVGEA
Analyst:                 VR
Background Subtract:     DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************

Post-NID Peak Search Report
***** No peaks found *****
```

Removed by:

D H Gerlicher

date: 6-3-95

Verified by:

R Bachelor 6/5/95

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

WHC-SD-WM-DP-154, REV 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	35.	477.59	2.4090E-01
NA-22	8.	1274.53	2.7613E-02
NA-24	4.	1368.55	2.0985E-02
K-40	95.	1460.75	9.9444E-01
SC-46	21.	1120.55	4.0178E-02
CR-51	58.	320.08	2.3123E-01
MN-54	24.	834.83	3.2696E-02
CO-56	15.	846.76	2.6283E-02
CO-57	65.	122.06	1.8062E-02
CO-58	11.	810.78	2.1585E-02
FE-59	9.	1099.25	4.5968E-02
CO-60	10.	1332.50	3.1556E-02
ZN-65	7.	1115.55	4.4284E-02
SE-75	63.	264.66	3.6257E-02
KR-85	31.	514.00	5.7559E+00
SR-85	31.	514.01	2.5986E-02
Y-88	1.	1836.06	1.3173E-02
Y-90	2.	1760.70	7.0291E-02
Y-91	11.	1204.67	1.0089E+01
NB-94	19.	871.09	2.9912E-02
NB-95	17.	765.78	2.6014E-02
ZR-95	21.	756.73	5.2070E-02
RU-103	27.	497.08	2.4602E-02
RURH-106	23.	621.93	5.0988E-01
AG-108m	16.	722.94	2.6112E-02
CD-109	58.	88.03	5.8231E-01
AG-110M	21.	657.76	2.6768E-02
SN-113	37.	391.69	3.3373E-02
TE-123m	77.	159.00	1.9682E-02
SB-124	28.	602.73	2.7559E-02
SB-125	29.	427.89	6.9557E-02
TE-125m	73.	109.27	6.3200E+00
I-129	50.	39.60	0.0000E+00
I-131	46.	364.48	2.7991E-02
XE-131m	76.	163.93	8.4824E-01
BA-133	42.	356.02	3.4511E-02
CS-134	33.	604.70	3.0219E-02
CS-136	6.	818.51	1.5761E-02
CS-137	111.	661.66	6.7839E-02
CS-138	9.	1435.86	6.8944E-02
CE-139	64.	165.85	1.9206E-02
BA-140	21.	537.31	8.6556E-02
LA-140	1.	1596.21	1.2336E-02
CE-141	67.	145.44	3.1265E-02
CE-144	70.	133.51	1.3951E-01
CEPR-144	70.	133.51	2.7872E-01
EU-152	5.	1408.01	1.1398E-01
EU-154	8.	1274.51	8.0223E-02
EU-155	58.	86.54	6.6011E-02
HF-181	20.	482.18	2.3233E-02
TA-182	68.	67.75	9.9298E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
HG-203	67.	279.20	2.7862E-02
BI-207	26.	569.70	2.5349E-02
TL-208	80.	277.36	3.8941E-01
PB-210	61.	46.50	0.0000E+00
BI-212	15.	727.18	3.4228E-01
PB-212	70.	238.63	4.7648E-02
BI-214	45.	609.31	7.6728E-02
PB-214	72.	351.92	1.3755E-01
RA-224	64.	240.99	5.0470E-01
RA-226	73.	186.10	4.9777E-01
AC-228	28.	911.21	1.4316E-01
TH-228	66.	84.37	1.9171E+00
TH-229	59.	88.47	8.5207E-02
U-232	47.	57.78	3.0924E+01
PA-233	58.	312.17	5.9332E-02
PA-234M	9.	1001.03	1.1869E+00
TH-234	60.	63.29	1.0594E+00
U-235	72.	185.71	3.0042E-02
NP-237	58.	86.48	1.7523E-01
U-237	55.	59.54	1.6973E-01
NP-238	11.	984.45	9.1953E-02
NP-239	73.	106.12	8.0818E-02
PU-239	75.	129.30	2.5313E+02
AM-241	55.	59.54	1.6281E-01
AM-243	84.	74.67	5.8777E-02

****
* 222-S Laboratory Counting Room 3-JUN-1995 17:57:32.33 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T778-DUP
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:
D.H. Milicia
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2074.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:03.63 sec

Verified by:
R Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 17:06:53.12
Decayed to: 3-JUN-1995 17:06:53.12
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	662.01*	20061	1.51	1324.03	1316	16	1.5		CS-137	27.8

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	2.784E+01	2.784E+01	0.041E+01	1.46	
Total Activity :			2.784E+01	2.784E+01			
Grand Total Activity :			2.784E+01	2.784E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	670.	477.59	1.0502E+00
NA-22	11.	1274.53	3.2310E-02
NA-24	7.	1368.55	2.6933E-02
K-40	112.	1460.75	1.0797E+00
SC-46	23.	1120.55	4.1624E-02
CR-51	672.	320.08	7.8437E-01
MN-54	20.	834.83	3.0175E-02
CO-56	20.	846.76	3.0351E-02
CO-57	1012.	122.06	7.1119E-02
CO-58	27.	810.78	3.3936E-02
FE-59	8.	1099.25	4.3527E-02
CO-60	11.	1332.50	3.3702E-02
ZN-65	16.	1115.55	6.8343E-02
SE-75	702.	264.66	1.2103E-01
KR-85	370.	514.00	1.9806E+01
SR-85	369.	514.01	8.9547E-02
Y-88	2.	1836.06	1.7014E-02
Y-90	4.	1760.70	8.9078E-02
Y-91	14.	1204.67	1.1726E+01
NB-94	17.	871.09	2.8710E-02
NB-95	17.	765.78	2.5584E-02
ZR-95	24.	756.73	5.5747E-02
RU-103	389.	497.08	9.4213E-02
RURH-106	149.	621.93	1.2871E+00
AG-108m	29.	722.94	3.5006E-02
CD-109	969.	88.03	2.3904E+00
AG-110M	337.	657.76	1.0613E-01
SN-113	668.	391.69	1.4221E-01
TE-123m	840.	159.00	6.4852E-02
SB-124	164.	602.73	6.6785E-02
SB-125	763.	427.89	3.5675E-01
TE-125m	968.	109.27	2.3057E+01
I-129	726.	39.60	0.0000E+00
I-131	645.	364.48	1.0469E-01
XE-131m	953.	163.93	2.9987E+00
BA-133	612.	356.02	1.3110E-01
CS-134	154.	604.70	6.5014E-02
CS-136	15.	818.51	2.5531E-02
CS-138	6.	1435.86	5.7578E-02
CE-139	906.	165.85	7.2037E-02
BA-140	282.	537.31	3.1991E-01
LA-140	6.	1596.21	2.9465E-02
CE-141	943.	145.44	1.1745E-01
CE-144	962.	133.51	5.1866E-01
CEPR-144	962.	133.51	1.0363E+00
EU-152	5.	1408.01	1.0868E-01
EU-154	11.	1274.51	9.4043E-02
EU-155	978.	86.54	2.7206E-01
HF-181	539.	482.18	1.2211E-01
TA-182	842.	67.75	3.4962E-01
HG-203	699.	279.20	8.9832E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T778-DUP Acquisition date : 3-JUN-1995 17:06:53

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	212.	569.70	7.2496E-02
TL-208	670.	277.36	1.1309E+00
PB-210	796.	46.50	0.0000E+00
BI-212	37.	727.18	5.4384E-01
PB-212	845.	238.63	1.6587E-01
BI-214	184.	609.31	1.5559E-01
PB-214	641.	351.92	4.1142E-01
RA-224	811.	240.99	1.8034E+00
RA-226	1043.	186.10	1.8842E+00
AC-228	33.	911.21	1.5685E-01
TH-228	975.	84.37	7.3611E+00
TH-229	975.	88.47	3.4758E-01
U-232	773.	57.78	1.2523E+02
PA-233	658.	312.17	1.9910E-01
PA-234M	20.	1001.03	1.7839E+00
TH-234	852.	63.29	4.0086E+00
U-235	1051.	185.71	1.1493E-01
NP-237	982.	86.48	7.2204E-01
U-237	813.	59.54	6.4977E-01
NP-238	16.	984.45	1.1243E-01
NP-239	965.	106.12	2.9346E-01
PU-239	962.	129.30	9.0542E+02
AM-241	813.	59.54	6.2329E-01
AM-243	985.	74.67	2.0104E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 17:05:41.24                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T778-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2073.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:03.39 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 16:15:01.97
Decayed to:               3-JUN-1995 16:15:01.97
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  DM
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************
```

Removed by:

D. H. Malicia

date: 6-3-95

Verified by:

B. Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	662.00*	18930	1.52	1324.02	1316	17	1.5		CS-137	26.3
0	910.99*	9	1.62	1821.96	1816	11	136.1			

Sample ID : S95T778-SAM Acquisition date : 3-JUN-1995 16:15:01

Total number of lines in spectrum 2
Number of unidentified lines 0
Number of lines tentatively identified by NID 2 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	2.627E+01	2.627E+01	0.039E+01	1.49	
Total Activity :			**2.627E+01**	**2.627E+01**			
Grand Total Activity :			2.627E+01	2.627E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	650.	477.59	1.0345E+00
NA-22	11.	1274.53	3.2689E-02
NA-24	12.	1368.55	3.6495E-02
K-40	113.	1460.75	1.0846E+00
SC-46	21.	1120.55	3.9941E-02
CR-51	593.	320.08	7.3698E-01
MN-54	13.	834.83	2.4199E-02
CO-56	11.	846.76	2.2503E-02
CO-57	957.	122.06	6.9162E-02
CO-58	24.	810.78	3.1985E-02
FE-59	12.	1099.25	5.2488E-02
CO-60	4.	1332.50	2.1135E-02
ZN-65	14.	1115.55	6.3878E-02
SE-75	678.	264.66	1.1892E-01
KR-85	350.	514.00	1.9276E+01
SR-85	350.	514.01	8.7125E-02
Y-88	4.	1836.06	2.5230E-02
Y-90	5.	1760.70	9.6573E-02
Y-91	8.	1204.67	8.8371E+00
NB-94	19.	871.09	3.0642E-02
NB-95	19.	765.78	2.7207E-02
ZR-95	24.	756.73	5.5520E-02
RU-103	419.	497.08	9.7775E-02
RURH-106	173.	621.93	1.3873E+00
AG-108m	30.	722.94	3.5554E-02
CD-109	929.	88.03	2.3395E+00
AG-110M	317.	657.76	1.0306E-01
SN-113	619.	391.69	1.3691E-01
TE-123m	827.	159.00	6.4335E-02
SB-124	154.	602.73	6.4723E-02
SB-125	645.	427.89	3.2808E-01
TE-125m	924.	109.27	2.2526E+01
I-129	638.	39.60	0.0000E+00
I-131	556.	364.48	9.7241E-02
XE-131m	848.	163.93	2.8286E+00
BA-133	515.	356.02	1.2026E-01
CS-134	167.	604.70	6.7516E-02
CS-136	23.	818.51	3.1951E-02
CS-138	8.	1435.86	6.6538E-02
CE-139	888.	165.85	7.1301E-02
BA-140	270.	537.31	3.1286E-01
LA-140	3.	1596.21	2.0288E-02
CE-141	843.	145.44	1.1111E-01
CE-144	915.	133.51	5.0583E-01
CEPR-144	915.	133.51	1.0109E+00
EU-152	5.	1408.01	1.1326E-01
EU-154	11.	1274.51	9.5141E-02
EU-155	952.	86.54	2.6839E-01
HF-181	530.	482.18	1.2110E-01
TA-182	866.	67.75	3.5451E-01
HG-203	624.	279.20	8.4923E-02

WHC-SD-WM-DP-154, REV.0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	177.	569.70	6.6205E-02
TL-208	649.	277.36	1.1128E+00
PB-210	752.	46.50	0.0000E+00
BI-212	16.	727.18	3.5422E-01
PB-212	765.	238.63	1.5780E-01
BI-214	199.	609.31	1.6193E-01
PB-214	597.	351.92	3.9692E-01
RA-224	772.	240.99	1.7593E+00
RA-226	923.	186.10	1.7727E+00
AC-228	24.	911.21	1.3350E-01
TH-228	919.	84.37	7.1452E+00
TH-229	926.	88.47	3.3864E-01
U-232	738.	57.78	1.2239E+02
PA-233	602.	312.17	1.9043E-01
PA-234M	14.	1001.03	1.4712E+00
TH-234	810.	63.29	3.9095E+00
U-235	896.	185.71	1.0612E-01
NP-237	955.	86.48	7.1201E-01
U-237	793.	59.54	6.4195E-01
NP-238	12.	984.45	9.8975E-02
NP-239	933.	106.12	2.8850E-01
PU-239	903.	129.30	8.7730E+02
AM-241	793.	59.54	6.1577E-01
AM-243	893.	74.67	1.9151E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 18:50:10.91                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T781-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2075.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:03.53 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 17:59:26.77
Decayed to:               3-JUN-1995 17:59:26.77
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  DM
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************************
```

Removed by:

D.H. McMillan

date: 6-3-95

Verified by:

R.F. Mechelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	662.00*	13991	1.49	1324.01	1316	16	1.8		CS-137	19.4
0	1461.71*	17	2.37	2923.68	2917	19	168.4		K-40	0.376

Summary of Nuclide Activity
Sample ID : S95T781-SAM

Acquisition date : 3-JUN-1995 17:59:26

Total number of lines in spectrum	2	
Number of unidentified lines	0	
Number of lines tentatively identified by NID	2	100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.759E-01~~	3.759E-01	~~6.329E-01~~	~~168.36~~	BMG
CS-137	30.00Y	1.000	1.942E+01	1.942E+01	0.034E+01	1.76	
	Total Activity :		1.979E+01	1.979E+01			
Grand Total Activity :			1.979E+01	1.979E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	503.	477.59	9.0967E-01
NA-22	26.	1274.53	4.9691E-02
NA-24	7.	1368.55	2.7746E-02
SC-46	22.	1120.55	4.0655E-02
CR-51	513.	320.08	6.8524E-01
MN-54	22.	834.83	3.1541E-02
CO-56	26.	846.76	3.4625E-02
CO-57	1441.	122.06	8.4883E-02
CO-58	29.	810.78	3.5115E-02
FE-59	16.	1099.25	6.0408E-02
CO-60	17.	1332.50	4.1886E-02
ZN-65	17.	1115.55	7.0470E-02
SE-75	624.	264.66	1.1409E-01
KR-85	301.	514.00	1.7882E+01
SR-85	301.	514.01	8.0796E-02
Y-88	0.	1836.06	0.0000E+00
Y-90	3.	1760.70	8.3214E-02
Y-91	17.	1204.67	1.2917E+01
NB-94	32.	871.09	3.9471E-02
NB-95	29.	765.78	3.3335E-02
ZR-95	26.	756.73	5.7666E-02
RU-103	334.	497.08	8.7346E-02
RURH-106	135.	621.93	1.2240E+00
AG-108m	46.	722.94	4.4194E-02
CD-109	1525.	88.03	2.9982E+00
AG-110M	239.	657.76	8.9337E-02
SN-113	497.	391.69	1.2267E-01
TE-123m	1112.	159.00	7.4624E-02
SB-124	149.	602.73	6.3546E-02
SB-125	539.	427.89	2.9979E-01
TE-125m	1416.	109.27	2.7887E+01
I-129	955.	39.60	0.0000E+00
I-131	509.	364.48	9.2968E-02
XE-131m	1066.	163.93	3.1707E+00
BA-133	497.	356.02	1.1820E-01
CS-134	143.	604.70	6.2655E-02
CS-136	21.	818.51	3.0189E-02
CS-138	7.	1435.86	6.0830E-02
CE-139	1054.	165.85	7.7666E-02
BA-140	192.	537.31	2.6402E-01
LA-140	5.	1596.21	2.7585E-02
CE-141	1218.	145.44	1.3352E-01
CE-144	1318.	133.51	6.0717E-01
CEPR-144	1318.	133.51	1.2132E+00
EU-152	8.	1408.01	1.4327E-01
EU-154	26.	1274.51	1.4459E-01
EU-155	1528.	86.54	3.4000E-01
HF-181	406.	482.18	1.0601E-01
TA-182	1365.	67.75	4.4504E-01
HG-203	614.	279.20	8.4185E-02
BI-207	136.	569.70	5.8061E-02

WHC-SD-WM-DP-154, REV.0

Sample ID : S95T781-SAM Acquisition date : 3-JUN-1995 17:59:26

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	599.	277.36	1.0692E+00
PB-210	931.	46.50	0.0000E+00
BI-212	29.	727.18	4.8521E-01
PB-212	821.	238.63	1.6346E-01
BI-214	147.	609.31	1.3927E-01
PB-214	556.	351.92	3.8299E-01
RA-224	786.	240.99	1.7757E+00
RA-226	1083.	186.10	1.9196E+00
AC-228	23.	911.21	1.3071E-01
TH-228	1471.	84.37	9.0434E+00
TH-229	1523.	88.47	4.3439E-01
U-232	1126.	57.78	1.5116E+02
PA-233	560.	312.17	1.8369E-01
PA-234M	26.	1001.03	2.0262E+00
TH-234	1243.	63.29	4.8425E+00
U-235	1089.	185.71	1.1700E-01
NP-237	1527.	86.48	9.0017E-01
U-237	1187.	59.54	7.8526E-01
NP-238	20.	984.45	1.2688E-01
NP-239	1460.	106.12	3.6092E-01
PU-239	1357.	129.30	1.0756E+03
AM-241	1187.	59.54	7.5324E-01
AM-243	1513.	74.67	2.4925E-01

WHC-SD-WM-DP-154, REV. 0

```
********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 19:41:57.36                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T781-DUP
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA2
File Number:              dka300:[spec.GEA2]2g2076.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:03.61 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 18:51:16.30
Decayed to:               3-JUN-1995 18:51:16.30
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  DM
Background Subtract:      DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
********************************************************************************
```

Removed by:

D. H. Milicia

date: 6-3-95

Verified by:

R J Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.99*	14120	1.52	1324.01	1316	17	1.7		CS-137	19.6
0	1174.45	26	3.23	2348.95	2340	17	53.7			
0	1274.88	27	1.94	2549.87	2545	10	44.5		NA-22	5.600E-02
0	1461.49*	16	1.89	2923.25	2916	14	148.9		K-40	0.356

Total number of lines in spectrum 4
Number of unidentified lines 0
Number of lines tentatively identified by NID 4 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~5.600E-02~~	~~5.600E-02~~	~~2.493E-02~~	~~44.52~~	
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.555E-01~~	~~3.555E-01~~	~~5.294E-01~~	~~148.91~~	
CS-137	30.00Y	1.000	1.959E+01	1.959E+01	0.034E+01	1.75	
		Total Activity :	2.001E+01	2.001E+01			
		Grand Total Activity :	2.001E+01	2.001E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	537.	477.59	9.3961E-01
NA-24	6.	1368.55	2.5737E-02
SC-46	23.	1120.55	4.1624E-02
CR-51	560.	320.08	7.1600E-01
MN-54	22.	834.83	3.1565E-02
CO-56	20.	846.76	3.0309E-02
CO-57	1487.	122.06	8.6218E-02
CO-58	33.	810.78	3.7481E-02
FE-59	14.	1099.25	5.5986E-02
CO-60	15.	1332.50	3.9781E-02
ZN-65	18.	1115.55	7.2535E-02
SE-75	669.	264.66	1.1815E-01
KR-85	312.	514.00	1.8210E+01
SR-85	312.	514.01	8.2273E-02
Y-88	2.	1836.06	1.8630E-02
Y-90	3.	1760.70	8.3214E-02
Y-91	19.	1204.67	1.3387E+01
NB-94	25.	871.09	3.5075E-02
NB-95	37.	765.78	3.7727E-02
ZR-95	32.	756.73	6.3594E-02
RU-103	332.	497.08	8.6999E-02
RURH-106	142.	621.93	1.2537E+00
AG-108m	50.	722.94	4.6046E-02
CD-109	1661.	88.03	3.1294E+00
AG-110M	252.	657.76	9.1846E-02
SN-113	492.	391.69	1.2211E-01
TE-123m	1167.	159.00	7.6429E-02
SB-124	145.	602.73	6.2807E-02
SB-125	524.	427.89	2.9558E-01
TE-125m	1531.	109.27	2.9004E+01
I-129	999.	39.60	0.0000E+00
I-131	475.	364.48	8.9797E-02
XE-131m	1185.	163.93	3.3436E+00
BA-133	489.	356.02	1.1724E-01
CS-134	138.	604.70	6.1469E-02
CS-136	22.	818.51	3.1241E-02
CS-138	8.	1435.86	6.4606E-02
CE-139	1111.	165.85	7.9745E-02
BA-140	216.	537.31	2.7965E-01
LA-140	6.	1596.21	2.9465E-02
CE-141	1327.	145.44	1.3936E-01
CE-144	1341.	133.51	6.1255E-01
CEPR-144	1341.	133.51	1.2239E+00
EU-152	12.	1408.01	1.7207E-01
EU-154	29.	1274.51	1.5274E-01
EU-155	1650.	86.54	3.5333E-01
HF-181	450.	482.18	1.1160E-01
TA-182	1348.	67.75	4.4229E-01
HG-203	678.	279.20	8.8520E-02
BI-207	142.	569.70	5.9350E-02
TL-208	668.	277.36	1.1291E+00

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	946.	46.50	0.0000E+00
BI-212	36.	727.18	5.3525E-01
PB-212	819.	238.63	1.6325E-01
BI-214	156.	609.31	1.4321E-01
PB-214	509.	351.92	3.6667E-01
RA-224	776.	240.99	1.7646E+00
RA-226	1050.	186.10	1.8905E+00
AC-228	28.	911.21	1.4316E-01
TH-228	1648.	84.37	9.5697E+00
TH-229	1658.	88.47	4.5313E-01
U-232	1179.	57.78	1.5468E+02
PA-233	547.	312.17	1.8150E-01
PA-234M	14.	1001.03	1.4713E+00
TH-234	1311.	63.29	4.9721E+00
U-235	1049.	185.71	1.1484E-01
NP-237	1652.	86.48	9.3651E-01
U-237	1237.	59.54	8.0159E-01
NP-238	20.	984.45	1.2688E-01
NP-239	1532.	106.12	3.6978E-01
PU-239	1391.	129.30	1.0888E+03
AM-241	1237.	59.54	7.6893E-01
AM-243	1544.	74.67	2.5180E-01

LABCORE Data Entry Template for Worklist# 1472

Analyst: EAL **Instrument:** GEA00 4 **Book #** 12/852

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 1 mL sample. R(0)-PPB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	3	SAMPLE	S95T000787	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments: WHC-SD-WM-DP-154, REV 0

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1472

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T000787	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000787	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000790	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1472

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000790	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1472

Glenn Lamkin 06/03/95
Analyst Signature **Date**

Sharon L Wilds 6 5 95
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		2.14E+01	2.14E-02	0.88			0.00E+00			
Work List	CS-137		2.51E+01	2.51E-02	0.77			0.00E+00			
1472				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1472				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
EAL				0.00E+00				0.00E+00			
Date											
06/03/95											
Time											
01:48 AM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.302 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	1.64E-02	7.13E-03				ERR			
Work List	CS-137	<	2.47E-02	1.07E-02				ERR			
1472	EU-154	<	4.76E-02	2.07E-02				ERR			
Test Code	EU-155	<	3.12E-02	1.35E-02				ERR			
@GEA-02	AM-241	<	6.96E-02	3.02E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T787				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
DUP's Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
EAL				0.00E+00				ERR			
Date											
06/03/95											
Time											
01:48 AM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/16/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.302 < Enter SAMPLE g/L 2.32 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	1.91E-02	8.28E-03		<	1.98E-02	8.55E-03		<	8.41E-03	NA
Work List	CS-137		2.70E+01	1.17E+01	0.69		2.79E+01	1.20E+01	0.68		1.19E+01	2.6
1472	EU-154	<	6.77E-02	2.94E-02		<	6.43E-02	2.77E-02		<	2.86E-02	NA
Test Code	EU-155	<	1.17E-01	5.10E-02		<	1.20E-01	5.19E-02		<	5.15E-02	NA
@GEA-02	AM-241	<	2.78E-01	1.21E-01		<	2.86E-01	1.23E-01		<	1.22E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T787				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/95												
Time												
01:48 AM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.01 < Enter SAMPLE g/L 1.99 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	<	AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	1.83E-02	9.09E-03		<	1.87E-02	9.38E-03		<	9.23E-03	NA
Work List	CS-137		2.02E+01	1.00E+01	0.8		2.04E+01	1.02E+01	0.6		1.01E+01	1.8
1472	EU-154	<	6.51E-02	3.24E-02		<	6.84E-02	3.44E-02		<	3.34E-02	NA
Test Code	EU-155	<	1.19E-01	5.93E-02		<	1.20E-01	6.03E-02		<	5.98E-02	NA
@GEA-02	AM-241	<	2.79E-01	1.39E-01		<	2.79E-01	1.40E-01		<	1.40E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T790				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/96												
Time	REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF											
01:48 AM	AVERAGE = (SAMPLE + DUPLICATE) / 2											
	RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100											

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 3-JUN-1995 17:15:58.19 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST1472-STD
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D H Milicia
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA4
File Number: dka300:[spec.GEA4]4g4727.cnf
Geometry: 41
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:35.89 sec

Verified by: B Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 16:24:46.20
Decayed to: 3-JUN-1995 16:24:46.20
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA4]4GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 18-APR-1994 11:17:09.37
Date of last efficiency calibration: 18-APR-1994 11:18:36.88

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
10	25.69	2484	1.93	51.39	47	18	9.6	3.31E+01		
10	27.60	1312	1.32	55.21	47	18	16.4			
10	29.74	745	1.33	59.48	47	18	29.1		I-129	0.000E+00
0	475.33	713	1.57	950.58	946	10	40.0			
0	563.59	1679	1.26	1127.09	1122	11	14.5		CS-134	4.74
0	569.68	3221	1.45	1139.26	1134	12	8.4		CS-134	4.97
0	605.07	20415	1.48	1210.04	1204	13	1.9		CS-134	5.14
0	662.03*	81916	1.52	1323.97	1316	15	0.8		CS-137	25.1
0	796.27	14677	1.64	1592.45	1586	13	2.3			
0	802.34	1422	1.53	1604.59	1600	10	13.6		CS-134	5.21
7	1170.19	748	3.41	2340.32	2332	24	48.2	8.93E+00		
7	1173.80*	47956	1.83	2347.55	2332	24	1.0		CO-60	21.2
0	1333.10	44901	1.92	2666.20	2656	20	1.0		CO-60	21.6
0	1365.97	384	1.91	2731.95	2726	17	16.4			
0	1401.31	145	1.64	2802.64	2797	13	35.9			

Total number of lines in spectrum 15
Number of unidentified lines 6
Number of lines tentatively identified by NID 9 60.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.136E+01	2.136E+01	0.015E+01	0.68	
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	
CS-134	2.06Y	1.000	5.130E+00	5.130E+00	0.093E+00	1.82	
CS-137	30.00Y	1.000	2.511E+01	2.511E+01	0.019E+01	0.77	
	Total Activity :		5.160E+01	5.160E+01			

Grand Total Activity : 5.160E+01 5.160E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	4632.	477.59	6.3527E-01
NA-22	317.	1274.53	3.8603E-02
NA-24	272.	1368.55	3.8362E-02
K-40	837.	1460.75	6.5426E-01
SC-46	1910.	1120.55	8.6598E-02
CR-51	4446.	320.08	4.5031E-01
MN-54	2230.	834.83	7.3378E-02
CO-56	2316.	846.76	7.5994E-02
CO-57	4111.	122.06	3.0273E-02
CO-58	2266.	810.78	7.2080E-02
FE-59	2172.	1099.25	1.6110E-01
ZN-65	2139.	1115.55	1.8010E-01
SE-75	4922.	264.66	7.0943E-02
KR-85	3400.	514.00	1.3902E+01
SR-85	3399.	514.01	6.2852E-02
Y-88	52.	1836.06	2.1211E-02
Y-90	67.	1760.70	8.1640E-02
Y-91	628.	1204.67	1.7445E+01
NB-94	2442.	871.09	8.0511E-02
NB-95	2095.	765.78	6.5098E-02
ZR-95	2001.	756.73	1.1502E-01
RU-103	3564.	497.08	6.5915E-02
RURH-106	2375.	621.93	1.1419E+00
AG-108m	1916.	722.94	6.4325E-02
CD-109	3596.	88.03	9.1099E-01
AG-110M	2538.	657.76	6.4358E-02
SN-113	4564.	391.69	8.3688E-02
TE-123m	4289.	159.00	3.1739E-02
SB-124	10503.	602.73	1.1966E-01
SB-125	4795.	427.89	2.0285E-01
TE-125m	3868.	109.27	9.5070E+00
I-131	4490.	364.48	6.1959E-02
XE-131m	4357.	163.93	1.3901E+00
BA-133	4463.	356.02	7.9335E-02
CS-136	2211.	818.51	7.1790E-02
CS-138	90.	1435.86	4.8604E-02
CE-139	4410.	165.85	3.4472E-02
BA-140	2929.	537.31	2.3762E-01
LA-140	71.	1596.21	2.3092E-02
CE-141	4313.	145.44	5.4176E-02
CE-144	4120.	133.51	2.2970E-01
CEPR-144	4121.	133.51	4.5899E-01
EU-152	111.	1408.01	1.1810E-01
EU-154	317.	1274.51	1.1212E-01
EU-155	3642.	86.54	1.0367E-01
HF-181	3971.	482.18	7.6358E-02
TA-182	3515.	67.75	1.4229E-01
HG-203	4696.	279.20	5.1670E-02
BI-207	5904.	569.70	8.7057E-02
TL-208	4776.	277.36	6.6938E-01
PB-210	3470.	46.50	0.0000E+00

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-212	1978.	727.18	8.9823E-01
PB-212	5453.	238.63	9.2868E-02
BI-214	2655.	609.31	1.3210E-01
PB-214	4557.	351.92	2.4707E-01
RA-224	5157.	240.99	1.0028E+00
RA-226	5227.	186.10	9.1907E-01
AC-228	2847.	911.21	3.4100E-01
TH-228	3649.	84.37	2.8064E+00
TH-229	3581.	88.47	1.3185E-01
U-232	3397.	57.78	5.6300E+01
PA-233	4494.	312.17	1.1596E-01
PA-234M	2231.	1001.03	4.3658E+00
TH-234	3421.	63.29	1.6316E+00
U-235	5198.	185.71	5.5704E-02
NP-237	3645.	86.48	2.7469E-01
U-237	3370.	59.54	2.7725E-01
NP-238	2366.	984.45	3.1624E-01
NP-239	3795.	106.12	1.1923E-01
PU-239	4192.	129.30	4.0282E+02
AM-241	3370.	59.54	2.6593E-01
AM-243	3661.	74.67	7.6302E-02

```
**********************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 18:07:25.45          *
**********************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:               WORKLIST1472-BLK
Sample Size:             1.00000E-03 LI
Dilution Factor:         1.00000E+00
Conversion LI to LI:     1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:             GEA4
File Number:             dka300:[spec.GEA4]4g4728.cnf
Geometry:                41
Description:
Count Time:              0 00:50:00.00 sec
Real Time:               0 00:50:02.31 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:       3-JUN-1995 17:16:46.95
Decayed to:              3-JUN-1995 17:16:46.95
Standard Deviations:     2
Analysis Library:        ENVGEA
Analyst:                 DM
Background Subtract:     DKA300:[SPEC.GEA4]4GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       18-APR-1994 11:17:09.37
 Date of last efficiency calibration:   18-APR-1994 11:18:36.88
**********************************************************************

Post-NID Peak Search Report
***** No peaks found *****
```

Removed by:

D.H. Milicia

date: 6-3-95

Verified by:

R Bachelor 6/5/95

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	150.	477.59	1.1439E-01
NA-22	57.	1274.53	1.6344E-02
NA-24	33.	1368.55	1.3375E-02
K-40	840.	1460.75	6.5542E-01
SC-46	115.	1120.55	2.1251E-02
CR-51	260.	320.08	1.0894E-01
MN-54	103.	834.83	1.5732E-02
CO-56	94.	846.76	1.5300E-02
CO-57	348.	122.06	8.8064E-03
CO-58	89.	810.78	1.4249E-02
FE-59	71.	1099.25	2.9076E-02
CO-60	54.	1332.50	1.6402E-02
ZN-65	58.	1115.55	2.9695E-02
SE-75	319.	264.66	1.8059E-02
KR-85	237.	514.00	3.6739E+00
SR-85	237.	514.01	1.6578E-02
Y-88	19.	1836.06	1.2834E-02
Y-90	18.	1760.70	4.2461E-02
Y-91	63.	1204.67	5.5217E+00
NB-94	79.	871.09	1.4452E-02
NB-95	102.	765.78	1.4388E-02
ZR-95	77.	756.73	2.2558E-02
RU-103	151.	497.08	1.3569E-02
RURH-106	116.	621.93	2.5192E-01
AG-108m	94.	722.94	1.4272E-02
CD-109	302.	88.03	2.6383E-01
AG-110M	114.	657.76	1.3610E-02
SN-113	215.	391.69	1.8144E-02
TE-123m	327.	159.00	8.7695E-03
SB-124	124.	602.73	1.2977E-02
SB-125	180.	427.89	3.9323E-02
TE-125m	311.	109.27	2.6966E+00
I-129	223.	39.60	0.0000E+00
I-131	232.	364.48	1.4096E-02
XE-131m	346.	163.93	3.9168E-01
BA-133	226.	356.02	1.7849E-02
CS-134	124.	604.70	1.3064E-02
CS-136	82.	818.51	1.3864E-02
CS-137	301.	661.66	2.4719E-02
CS-138	26.	1435.86	2.5767E-02
CE-139	347.	165.85	9.6719E-03
BA-140	144.	537.31	5.2720E-02
LA-140	28.	1596.21	1.4401E-02
CE-141	316.	145.44	1.4672E-02
CE-144	283.	133.51	6.0221E-02
CEPR-144	283.	133.51	1.2031E-01
EU-152	45.	1408.01	7.4833E-02
EU-154	57.	1274.51	4.7552E-02
EU-155	329.	86.54	3.1163E-02
HF-181	149.	482.18	1.4793E-02
TA-182	256.	67.75	3.8397E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
HG-203	276.	279.20	1.2516E-02
BI-207	121.	569.70	1.2446E-02
TL-208	290.	277.36	1.6498E-01
PB-210	242.	46.50	0.0000E+00
BI-212	124.	727.18	2.2493E-01
PB-212	451.	238.63	2.6717E-02
BI-214	283.	609.31	4.3095E-02
PB-214	325.	351.92	6.5575E-02
RA-224	368.	240.99	2.6801E-01
RA-226	386.	186.10	2.4967E-01
AC-228	185.	911.21	8.6921E-02
TH-228	355.	84.37	8.7533E-01
TH-229	301.	88.47	3.8251E-02
U-232	241.	57.78	1.4984E+01
PA-233	280.	312.17	2.8953E-02
PA-234M	84.	1001.03	8.3669E-01
TH-234	274.	63.29	4.6204E-01
U-235	386.	185.71	1.5177E-02
NP-237	330.	86.48	8.2677E-02
U-237	230.	59.54	7.2446E-02
NP-238	96.	984.45	6.3644E-02
NP-239	332.	106.12	3.5260E-02
PU-239	324.	129.30	1.1194E+02
AM-241	230.	59.54	6.9490E-02
AM-243	381.	74.67	2.4613E-02

****
* 222-S Laboratory Counting Room 3-JUN-1995 18:59:22.58 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	S95T787-SAM
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: D. Hamilton

date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA4
File Number:	dka300:[spec.GEA4]4g4729.cnf
Geometry:	41
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:16.01 sec

Verified by: Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

WHC-SD-WM-DP-154, REV. 0

Sample Count Time:	3-JUN-1995 18:08:21.67
Decayed to:	3-JUN-1995 18:08:21.67
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	DM
Background Subtract:	DKA300:[SPEC.GEA4]4GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 18-APR-1994 11:17:09.37
Date of last efficiency calibration: 18-APR-1994 11:18:36.88

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	123.21	304	1.10	246.39	243	7	77.6		CO-57	3.091E-02
0	277.23	250	1.25	554.41	552	6	58.2			
0	662.04*	88066	1.51	1323.98	1316	17	0.7		CS-137	27.0
0	1275.04	61	1.60	2550.05	2545	14	62.1		NA-22	2.841E-02

Total number of lines in spectrum 4
Number of unidentified lines 0
Number of lines tentatively identified by NID 4 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~2.841E-02~~	~~2.841E-02~~	~~1.763E-02~~	~~62.06~~	? BMG
~~CO-57~~	~~271.80D~~	1.000	3.091E-02	3.091E-02	2.398E-02	77.58	
CS-137	30.00Y	1.000	2.699E+01	2.699E+01	0.019E+01	0.69	6/20/95
	Total Activity :		2.705E+01	2.705E+01			
	Grand Total Activity :		2.705E+01	2.705E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2817.	477.59	4.9540E-01
NA-24	34.	1368.55	1.3630E-02
K-40	824.	1460.75	6.4940E-01
SC-46	141.	1120.55	2.3535E-02
CR-51	2345.	320.08	3.2700E-01
MN-54	112.	834.83	1.6469E-02
CO-56	100.	846.76	1.5813E-02
CO-58	123.	810.78	1.6794E-02
FE-59	78.	1099.25	3.0485E-02
CO-60	73.	1332.50	1.9052E-02
ZN-65	84.	1115.55	3.5651E-02
SE-75	2754.	264.66	5.3068E-02
KR-85	1668.	514.00	9.7366E+00
SR-85	1666.	514.01	4.4003E-02
Y-88	13.	1836.06	1.0754E-02
Y-90	22.	1760.70	4.7130E-02
Y-91	79.	1204.67	6.1795E+00
NB-94	120.	871.09	1.7870E-02
NB-95	133.	765.78	1.6407E-02
ZR-95	146.	756.73	3.1082E-02
RU-103	1758.	497.08	4.6288E-02
RURH-106	599.	621.93	5.7339E-01
AG-108m	170.	722.94	1.9156E-02
CD-109	4651.	88.03	1.0360E+00
AG-110M	884.	657.76	3.7976E-02
SN-113	2568.	391.69	6.2769E-02
TE-123m	3654.	159.00	2.9294E-02
SB-124	643.	602.73	2.9613E-02
SB-125	2829.	427.89	1.5581E-01
TE-125m	4420.	109.27	1.0163E+01
I-129	3145.	39.60	0.0000E+00
I-131	2470.	364.48	4.5951E-02
XE-131m	3584.	163.93	1.2608E+00
BA-133	2384.	356.02	5.7987E-02
CS-134	672.	604.70	3.0368E-02
CS-136	119.	818.51	1.6677E-02
CS-138	37.	1435.86	3.1007E-02
CE-139	3503.	165.85	3.0724E-02
BA-140	1110.	537.31	1.4624E-01
LA-140	46.	1596.21	1.8640E-02
CE-141	3936.	145.44	5.1749E-02
CE-144	4161.	133.51	2.3082E-01
CEPR-144	4160.	133.51	4.6121E-01
EU-152	47.	1408.01	7.7121E-02
EU-154	116.	1274.51	6.7677E-02
EU-155	4674.	86.54	1.1745E-01
HF-181	2284.	482.18	5.7915E-02
TA-182	4103.	67.75	1.5373E-01
HG-203	2599.	279.20	3.8441E-02
BI-207	701.	569.70	2.9989E-02
TL-208	2648.	277.36	4.9842E-01

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	3042.	46.50	0.0000E+00
BI-212	173.	727.18	2.6579E-01
PB-212	3180.	238.63	7.0921E-02
BI-214	820.	609.31	7.3434E-02
PB-214	2554.	351.92	1.8434E-01
RA-224	3039.	240.99	7.6982E-01
RA-226	3945.	186.10	7.9845E-01
AC-228	175.	911.21	8.4641E-02
TH-228	4690.	84.37	3.1817E+00
TH-229	4628.	88.47	1.4990E-01
U-232	3617.	57.78	5.8097E+01
PA-233	2543.	312.17	8.7236E-02
PA-234M	92.	1001.03	8.7948E-01
TH-234	3939.	63.29	1.7508E+00
U-235	3884.	185.71	4.8152E-02
NP-237	4675.	86.48	3.1110E-01
U-237	3689.	59.54	2.9005E-01
NP-238	83.	984.45	5.9259E-02
NP-239	4554.	106.12	1.3061E-01
PU-239	4101.	129.30	3.9846E+02
AM-241	3689.	59.54	2.7821E-01
AM-243	4511.	74.67	8.4701E-02

****
* 222-S Laboratory Counting Room 3-JUN-1995 19:51:32.69 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T787-DUP
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D H Malicia
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA4
File Number: dka300:[spec.GEA4]4g4730.cnf
Geometry: 41
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:16.50 sec

Verified by: B Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 19:00:41.03
Decayed to: 3-JUN-1995 19:00:41.03
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA4]4GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 18-APR-1994 11:17:09.37
Date of last efficiency calibration: 18-APR-1994 11:18:36.88

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	123.17	361	1.01	246.31	243	7	66.9		CO-57	3.664E-02
0	610.12*	149	1.56	1220.15	1215	11	74.6			
0	662.04*	91083	1.51	1323.99	1315	18	0.7		CS-137	27.9
0	911.49*	55	1.85	1822.89	1817	14	94.7			
0	1275.33	51	1.75	2550.63	2546	9	53.8		NA-22	2.385E-02
0	1333.64	31	1.54	2667.28	2663	11	90.2			

Total number of lines in spectrum 6
Number of unidentified lines 0
Number of lines tentatively identified by NID 6 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~2.385E-02~~	~~2.385E-02~~	~~1.282E-02~~	~~53.75~~	
~~CO-57~~	~~271.80D~~	~~1.000~~	~~3.664E-02~~	~~3.664E-02~~	~~2.452E-02~~	~~66.90~~	
CS-137	30.00Y	1.000	2.792E+01	2.792E+01	0.019E+01	0.68	
	Total Activity :		2.798E+01	2.798E+01			
	Grand Total Activity :		2.798E+01	2.798E+01			

BMG 6/9/95

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2980.	477.59	5.0954E-01
NA-24	46.	1368.55	1.5722E-02
K-40	800.	1460.75	6.3960E-01
SC-46	139.	1120.55	2.3401E-02
CR-51	2532.	320.08	3.3984E-01
MN-54	110.	834.83	1.6267E-02
CO-56	97.	846.76	1.5562E-02
CO-58	99.	810.78	1.5081E-02
FE-59	76.	1099.25	3.0051E-02
CO-60	79.	1332.50	1.9833E-02
ZN-65	88.	1115.55	3.6518E-02
SE-75	2885.	264.66	5.4309E-02
KR-85	1642.	514.00	9.6608E+00
SR-85	1641.	514.01	4.3670E-02
Y-88	11.	1836.06	9.9555E-03
Y-90	18.	1760.70	4.2252E-02
Y-91	78.	1204.67	6.1673E+00
NB-94	127.	871.09	1.8381E-02
NB-95	135.	765.78	1.6504E-02
ZR-95	132.	756.73	2.9601E-02
RU-103	1782.	497.08	4.6608E-02
RURH-106	592.	621.93	5.7005E-01
AG-108m	170.	722.94	1.9169E-02
CD-109	4875.	88.03	1.0607E+00
AG-110M	964.	657.76	3.9665E-02
SN-113	2603.	391.69	6.3197E-02
TE-123m	3855.	159.00	3.0089E-02
SB-124	593.	602.73	2.8424E-02
SB-125	2954.	427.89	1.5921E-01
TE-125m	4459.	109.27	1.0208E+01
I-129	3091.	39.60	0.0000E+00
I-131	2508.	364.48	4.6303E-02
XE-131m	3661.	163.93	1.2742E+00
BA-133	2584.	356.02	6.0369E-02
CS-134	626.	604.70	2.9313E-02
CS-136	101.	818.51	1.5356E-02
CS-138	28.	1435.86	2.6990E-02
CE-139	3681.	165.85	3.1492E-02
BA-140	1059.	537.31	1.4285E-01
LA-140	38.	1596.21	1.6987E-02
CE-141	4067.	145.44	5.2607E-02
CE-144	4164.	133.51	2.3091E-01
CEPR-144	4165.	133.51	4.6144E-01
EU-152	47.	1408.01	7.6494E-02
EU-154	104.	1274.51	6.4341E-02
EU-155	4916.	86.54	1.2046E-01
HF-181	2335.	482.18	5.8560E-02
TA-182	4231.	67.75	1.5611E-01
HG-203	2785.	279.20	3.9787E-02
BI-207	739.	569.70	3.0802E-02
TL-208	2746.	277.36	5.0756E-01

WHC-SD-WM-DP-154, REV.0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	3130.	46.50	0.0000E+00
BI-212	163.	727.18	2.5770E-01
PB-212	3230.	238.63	7.1479E-02
BI-214	849.	609.31	7.4706E-02
PB-214	2523.	351.92	1.8322E-01
RA-224	3228.	240.99	7.9337E-01
RA-226	4198.	186.10	8.2359E-01
AC-228	218.	911.21	9.4336E-02
TH-228	4878.	84.37	3.2446E+00
TH-229	4796.	88.47	1.5259E-01
U-232	3709.	57.78	5.8832E+01
PA-233	2538.	312.17	8.7141E-02
PA-234M	82.	1001.03	8.2993E-01
TH-234	4058.	63.29	1.7770E+00
U-235	4195.	185.71	5.0042E-02
NP-237	4912.	86.48	3.1888E-01
U-237	3895.	59.54	2.9807E-01
NP-238	98.	984.45	6.4475E-02
NP-239	4672.	106.12	1.3230E-01
PU-239	4325.	129.30	4.0920E+02
AM-241	3896.	59.54	2.8591E-01
AM-243	4703.	74.67	8.6490E-02

****
* 222-S Laboratory Counting Room 3-JUN-1995 20:45:22.28 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T790-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D. H. Milicia
date: 6.5.95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA4
File Number: dka300:[spec.GEA4]4g4731.cnf
Geometry: 41
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:13.93 sec

Verified by: B Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 19:54:35.07
Decayed to: 3-JUN-1995 19:54:35.07
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA4]4GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 18-APR-1994 11:17:09.37
Date of last efficiency calibration: 18-APR-1994 11:18:36.88

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	123.46	214	1.04	246.89	245	5	84.0		CO-57	2.174E-02
0	662.04*	65869	1.51	1323.99	1315	17	0.8		CS-137	20.2
0	725.73	94	4.81	1451.37	1444	16	71.3			

Acquisition date : 3-JUN-1995 19:54:35

Total number of lines in spectrum 3
Number of unidentified lines 0
Number of lines tentatively identified by NID 3 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~CO-57~~	~~271.80D~~	~~1.000~~	~~2.174E-02~~	~~2.174E-02~~	~~1.826E-02~~	~~83.98~~	~~MG~~
CS-137	30.00Y	1.000	2.019E+01	2.019E+01	0.016E+01	0.80	
	Total Activity :		2.021E+01	2.021E+01			

6/05/95

WHC-SD-WM-DP-154, REV. 0

Grand Total Activity : 2.021E+01 2.021E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : S95T790-SAM Acquisition date : 3-JUN-1995 19:54:35

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2267.	477.59	4.4442E-01
NA-22	107.	1274.53	2.2400E-02
NA-24	34.	1368.55	1.3566E-02
K-40	830.	1460.75	6.5148E-01
SC-46	162.	1120.55	2.5220E-02
CR-51	2058.	320.08	3.0636E-01
MN-54	124.	834.83	1.7280E-02
CO-56	119.	846.76	1.7228E-02
CO-58	124.	810.78	1.6858E-02
FE-59	76.	1099.25	3.0195E-02
CO-60	67.	1332.50	1.8261E-02
ZN-65	69.	1115.55	3.2350E-02
SE-75	2346.	264.66	4.8980E-02
KR-85	1283.	514.00	8.5389E+00
SR-85	1282.	514.01	3.8591E-02
Y-88	14.	1836.06	1.1225E-02
Y-90	16.	1760.70	3.9801E-02
Y-91	86.	1204.67	6.4740E+00
NB-94	119.	871.09	1.7763E-02
NB-95	123.	765.78	1.5793E-02
ZR-95	147.	756.73	3.1168E-02
RU-103	1404.	497.08	4.1369E-02
RURH-106	494.	621.93	5.2101E-01
AG-108m	179.	722.94	1.9638E-02
CD-109	4738.	88.03	1.0456E+00
AG-110M	685.	657.76	3.3442E-02
SN-113	2087.	391.69	5.6588E-02
TE-123m	3460.	159.00	2.8508E-02
SB-124	538.	602.73	2.7080E-02
SB-125	2214.	427.89	1.3784E-01
TE-125m	4475.	109.27	1.0226E+01
I-129	3092.	39.60	0.0000E+00
I-131	1995.	364.48	4.1304E-02
XE-131m	3322.	163.93	1.2137E+00
BA-133	2004.	356.02	5.3170E-02
CS-134	560.	604.70	2.7736E-02
CS-136	108.	818.51	1.5902E-02
CS-138	29.	1435.86	2.7609E-02
CE-139	3286.	165.85	2.9757E-02
BA-140	809.	537.31	1.2486E-01
LA-140	27.	1596.21	1.4253E-02
CE-141	3640.	145.44	4.9764E-02
CE-144	4026.	133.51	2.2705E-01
CEPR-144	4026.	133.51	4.5371E-01
EU-152	56.	1408.01	8.3650E-02
EU-154	107.	1274.51	6.5079E-02
EU-155	4816.	86.54	1.1923E-01
HF-181	1780.	482.18	5.1127E-02
TA-182	4135.	67.75	1.5433E-01
HG-203	2186.	279.20	3.5255E-02
BI-207	591.	569.70	2.7547E-02

WHC-SD-WM-DP-154, REV.0

Sample ID : S95T790-SAM Acquisition date : 3-JUN-1995 19:54:35

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	2201.	277.36	4.5446E-01
PB-210	3034.	46.50	0.0000E+00
BI-212	159.	727.18	2.5458E-01
PB-212	2748.	238.63	6.5922E-02
BI-214	725.	609.31	6.9046E-02
PB-214	2026.	351.92	1.6411E-01
RA-224	2592.	240.99	7.1096E-01
RA-226	3516.	186.10	7.5379E-01
AC-228	194.	911.21	8.8946E-02
TH-228	4647.	84.37	3.1669E+00
TH-229	4690.	88.47	1.5090E-01
U-232	3573.	57.78	5.7744E+01
PA-233	2107.	312.17	7.9397E-02
PA-234M	105.	1001.03	9.4114E-01
TH-234	4026.	63.29	1.7700E+00
U-235	3484.	185.71	4.5602E-02
NP-237	4818.	86.48	3.1582E-01
U-237	3715.	59.54	2.9107E-01
NP-238	80.	984.45	5.8068E-02
NP-239	4648.	106.12	1.3195E-01
PU-239	4129.	129.30	3.9980E+02
AM-241	3715.	59.54	2.7920E-01
AM-243	4696.	74.67	8.6421E-02

****
* 222-S Laboratory Counting Room 3-JUN-1995 21:46:24.66 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T790-DUP
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D.H. Wilcia
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA4
File Number: dka300:[spec.GEA4]4g4732.cnf
Geometry: 41
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:14.03 sec

Verified by: B.B. Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 20:55:33.89
Decayed to: 3-JUN-1995 20:55:33.89
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA4]4GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 18-APR-1994 11:17:09.37
Date of last efficiency calibration: 18-APR-1994 11:18:36.88

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	662.03*	66376	1.51	1323.97	1315	18	0.8		CS-137	20.3
0	723.57	51	1.33	1447.04	1443	8	79.8			
0	873.76	35	1.50	1747.44	1744	9	108.7			
2	965.37	59	2.00	1930.65	1927	24	47.4	2.82E+00		
0	1275.88	32	1.36	2551.74	2549	7	79.1		NA-22	1.479E-02
0	1431.17	18	3.32	2862.37	2857	11	105.0			
0	1593.46	30	0.85	3187.01	3178	14	79.1			

Total number of lines in spectrum 7
Number of unidentified lines 2
Number of lines tentatively identified by NID 5 71.43%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~1.479E-02~~	~~1.479E-02~~	~~1.171E-02~~	~~79.13~~	~~EMS~~
CS-137	30.00Y	1.000	2.035E+01	2.035E+01	0.016E+01	0.80	
	Total Activity :		2.036E+01	2.036E+01			
	Grand Total Activity :		2.036E+01	2.036E+01			

WHC-SD-WM-DP-154, REV. 0

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2175.	477.59	4.3533E-01
NA-24	46.	1368.55	1.5764E-02
K-40	828.	1460.75	6.5089E-01
SC-46	146.	1120.55	2.3943E-02
CR-51	2110.	320.08	3.1020E-01
MN-54	139.	834.83	1.8298E-02
CO-56	131.	846.76	1.8076E-02
CO-57	4435.	122.06	3.1442E-02
CO-58	127.	810.78	1.7072E-02
FE-59	52.	1099.25	2.4966E-02
CO-60	70.	1332.50	1.8674E-02
ZN-65	93.	1115.55	3.7614E-02
SE-75	2380.	264.66	4.9328E-02
KR-85	1314.	514.00	8.6434E+00
SR-85	1313.	514.01	3.9064E-02
Y-88	12.	1836.06	1.0032E-02
Y-90	16.	1760.70	4.0170E-02
Y-91	78.	1204.67	6.1406E+00
NB-94	138.	871.09	1.9116E-02
NB-95	143.	765.78	1.6980E-02
ZR-95	159.	756.73	3.2406E-02
RU-103	1431.	497.08	4.1770E-02
RURH-106	514.	621.93	5.3140E-01
AG-108m	189.	722.94	2.0227E-02
CD-109	4785.	88.03	1.0509E+00
AG-110M	753.	657.76	3.5058E-02
SN-113	2007.	391.69	5.5498E-02
TE-123m	3524.	159.00	2.8769E-02
SB-124	596.	602.73	2.8508E-02
SB-125	2259.	427.89	1.3923E-01
TE-125m	4484.	109.27	1.0236E+01
I-129	3112.	39.60	0.0000E+00
I-131	1901.	364.48	4.0316E-02
XE-131m	3276.	163.93	1.2053E+00
BA-133	1987.	356.02	5.2932E-02
CS-134	559.	604.70	2.7706E-02
CS-136	102.	818.51	1.5456E-02
CS-138	28.	1435.86	2.7034E-02
CE-139	3365.	165.85	3.0109E-02
BA-140	847.	537.31	1.2777E-01
LA-140	38.	1596.21	1.6968E-02
CE-141	3813.	145.44	5.0938E-02
CE-144	4155.	133.51	2.3065E-01
CEPR-144	4155.	133.51	4.6089E-01
EU-152	46.	1408.01	7.6432E-02
EU-154	118.	1274.51	6.8439E-02
EU-155	4880.	86.54	1.2001E-01
HF-181	1782.	482.18	5.1147E-02
TA-182	4221.	67.75	1.5592E-01
HG-203	2306.	279.20	3.6210E-02
BI-207	581.	569.70	2.7302E-02

WHC-SD-WM-DP-154, REV.0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	2257.	277.36	4.6021E-01
PB-210	3043.	46.50	0.0000E+00
BI-212	167.	727.18	2.6074E-01
PB-212	2834.	238.63	6.6945E-02
BI-214	695.	609.31	6.7587E-02
PB-214	2084.	351.92	1.6646E-01
RA-224	2787.	240.99	7.3720E-01
RA-226	3611.	186.10	7.6392E-01
AC-228	183.	911.21	8.6456E-02
TH-228	4746.	84.37	3.2006E+00
TH-229	4680.	88.47	1.5073E-01
U-232	3508.	57.78	5.7219E+01
PA-233	2092.	312.17	7.9124E-02
PA-234M	99.	1001.03	9.1155E-01
TH-234	3917.	63.29	1.7459E+00
U-235	3593.	185.71	4.6313E-02
NP-237	4885.	86.48	3.1801E-01
U-237	3706.	59.54	2.9071E-01
NP-238	80.	984.45	5.8131E-02
NP-239	4672.	106.12	1.3230E-01
PU-239	4066.	129.30	3.9676E+02
AM-241	3706.	59.54	2.7886E-01
AM-243	4603.	74.67	8.5560E-02

LABCORE Data Entry Template for Worklist# 1473

Analyst: EAL **Instrument:** GEA00 B2 **Book #** 121B52

Method: LA-548-121 Rev/Mod D-1 LAD 6-9-95

Worklist Comment: Use 1 mL sample. R(0)-PPB

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				@GEA-02 C060-02	SOLID			N/A	uCi/g
		1 STD				@GEA-02 C060-02E	SOLID			N/A	% Ct. Error
		1 STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1 STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP				@GEA-02 C060-02	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 C060-02	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 C060-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

WHC-SD-WM-DP-154, REV 0

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1473

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T000837	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000837	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000840	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments:

WHC-SD-WM-DP-154, REV. 0

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1473

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000840	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1473

J Ann Lambert 06/03/95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO60		2.11E+01	2.11E-02	1.33			0.00E+00			
Work List	CS137		2.52E+01	2.52E-02	1.46			0.00E+00			
1473				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
LIQUID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1473				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
EAL				0.00E+00				0.00E+00			
Date											
06/03/95											
Time											
02:04 AM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.0996 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO60	<	2.82E-02	1.34E-02				ERR			
Work List	CS137	<	5.51E-02	2.62E-02				ERR			
1473	EU154	<	6.76E-02	3.22E-02				ERR			
Test Code	EU155	<	5.66E-02	2.70E-02				ERR			
@GEA-02	AM241	<	1.55E-01	7.38E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T837				0.00E+00				ERR			
				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
DUP's Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
EAL				0.00E+00				ERR			
Date											
06/03/95											
Time											
02:04 AM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.0996 < Enter SAMPLE g/L 2.0992 < Enter DUPLICATE g/L

Type	ANALYTE	?	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	?	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE/DUPLICATE	CO60	<	3.50E-02	1.67E-02		<	2.92E-02	1.39E-02		<	1.53E-02	NA
Work List	CS137		3.02E+01	1.44E+01	1.25		3.15E+01	1.50E+01	1.23		1.47E+01	4.2
1473	EU154	<	9.28E-02	4.42E-02		<	8.79E-02	4.19E-02		<	4.30E-02	NA
Test Code	EU155	<	2.32E-01	1.10E-01		<	2.39E-01	1.14E-01		<	1.12E-01	NA
@GEA-02	AM241	<	6.66E-01	3.17E-01		<	6.63E-01	3.16E-01		<	3.17E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T837				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/95												
Time	REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF											
02:04 AM												

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev.2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.8884 < Enter SAMPLE g/L 1.8936 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	<	AVERAGE µCi/g	RPD
SAMPLE/DUPLICATE	CO60	<	4.38E-02	2.32E-02		<	3.21E-02	1.70E-02		<	2.01E-02	NA
Work List	CS137		5.37E+01	2.84E+01	0.94		5.39E+01	2.85E+01	0.93		2.85E+01	0.1
1473	EU154	<	1.24E-01	6.57E-02		<	1.17E-01	6.18E-02		<	6.37E-02	NA
Test Code	EU155	<	3.02E-01	1.60E-01		<	2.99E-01	1.58E-01		<	1.59E-01	NA
@GEA-02	AM241	<	8.52E-01	4.51E-01		<	8.38E-01	4.43E-01		<	4.47E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T840				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/95												
Time												
02:04 AM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 3-JUN-1995 19:49:18.43 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST1473-STD
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D.H. Wilcox
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3344.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:09.94 sec

Verified by: Bachelor 6/5/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 18:58:30.78
Decayed to: 3-JUN-1995 18:58:30.78
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
8	26.79*	533	1.25	54.16	51	15	17.0	3.59E+01		
8	28.24*	583	1.74	57.07	51	15	25.2		I-129	0.000E+00
0	563.51	576	1.73	1127.23	1121	13	26.1		CS-134	5.78
0	569.40	971	1.43	1138.99	1134	11	13.6		CS-134	5.33
0	604.77	5619	1.55	1209.72	1202	14	3.6		CS-134	5.14
0	661.72*	22258	1.53	1323.63	1318	14	1.5		CS-137	25.2
0	795.87	4022	1.70	1591.91	1585	13	4.2		CS-134	5.31
0	802.00	378	1.46	1604.17	1600	10	26.4		CS-134	4.92
0	1173.16	13307	1.87	2346.58	2339	15	1.9		CO-60	21.0
0	1202.12	70	0.77	2404.53	2400	9	58.8			
0	1332.38	12129	2.02	2665.13	2657	19	1.9		CO-60	21.2
0	1365.07	134	2.19	2730.54	2725	13	19.8			
3	1400.29	46	2.19	2801.02	2795	21	44.1	5.33E+00		
3	1404.82	26	2.61	2810.08	2795	21	66.1			

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 890 TO 913.

Total number of lines in spectrum 14
Number of unidentified lines 5
Number of lines tentatively identified by NID 9 64.29%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.111E+01	2.111E+01	0.028E+01	1.33	
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	~~K~~
CS-134	2.06Y	1.000	5.216E+00	5.216E+00	0.140E+00	2.68	
CS-137	30.00Y	1.000	2.516E+01	2.516E+01	0.037E+01	1.46	
	Total Activity :		5.148E+01	5.148E+01			
	Grand Total Activity :		5.148E+01	5.148E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1305.	477.59	1.1899E+00
NA-22	96.	1274.53	7.7035E-02
NA-24	53.	1368.55	6.1817E-02
K-40	137.	1460.75	9.5704E-01
SC-46	543.	1120.55	1.6416E-01
CR-51	1344.	320.08	9.0902E-01
MN-54	648.	834.83	1.3923E-01
CO-56	665.	846.76	1.4276E-01
CO-57	1494.	122.06	6.6899E-02
CO-58	592.	810.78	1.3049E-01
FE-59	661.	1099.25	3.1527E-01
ZN-65	549.	1115.55	3.2408E-01
SE-75	1592.	264.66	1.4818E-01
KR-85	873.	514.00	2.4616E+01
SR-85	873.	514.01	1.1129E-01
Y-88	11.	1836.06	3.4487E-02
Y-90	15.	1760.70	1.3560E-01
Y-91	200.	1204.67	3.5303E+01
NB-94	689.	871.09	1.4891E-01
NB-95	562.	765.78	1.2059E-01
ZR-95	579.	756.73	2.2184E-01
RU-103	1005.	497.08	1.2264E-01
RURH-106	700.	621.93	2.2675E+00
AG-108m	557.	722.94	1.2554E-01
CD-109	1251.	88.03	2.0268E+00
AG-110M	911.	657.76	1.4221E-01
SN-113	1357.	391.69	1.6748E-01
TE-123m	1476.	159.00	6.8401E-02
SB-124	4338.	602.73	2.7877E-01
SB-125	1367.	427.89	3.9247E-01
TE-125m	1360.	109.27	2.0781E+01
I-131	1272.	364.48	1.2124E-01
XE-131m	1425.	163.93	2.9236E+00
BA-133	1311.	356.02	1.5803E-01
CS-136	616.	818.51	1.3387E-01
CS-138	20.	1435.86	8.1851E-02
CE-139	1522.	165.85	7.4498E-02
BA-140	850.	537.31	4.4890E-01
LA-140	17.	1596.21	4.0561E-02
CE-141	1477.	145.44	1.1616E-01
CE-144	1461.	133.51	5.0066E-01
CEPR-144	1461.	133.51	1.0004E+00
EU-152	19.	1408.01	1.7688E-01
EU-154	96.	1274.51	2.2381E-01
EU-155	1274.	86.54	2.3193E-01
HF-181	1152.	482.18	1.4484E-01
TA-182	1180.	67.75	3.3532E-01
HG-203	1406.	279.20	1.0385E-01
BI-207	1729.	569.70	1.6764E-01
TL-208	1441.	277.36	1.3508E+00
PB-210	1144.	46.50	0.0000E+00

WHC-SD-WM-DP-154, REV. 0

Sample ID : WORKLIST1473-STD Acquisition date : 3-JUN-1995 18:58:30

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-212	559.	727.18	1.7271E+00
PB-212	1837.	238.63	1.9800E-01
BI-214	697.	609.31	2.4621E-01
PB-214	1349.	351.92	4.9172E-01
RA-224	1774.	240.99	2.1600E+00
RA-226	1789.	186.10	1.9803E+00
AC-228	811.	911.21	6.3076E-01
TH-228	1261.	84.37	6.2673E+00
TH-229	1257.	88.47	2.9443E-01
U-232	1155.	57.78	1.5907E+02
PA-233	1451.	312.17	2.4190E-01
PA-234M	674.	1001.03	8.3548E+00
TH-234	1197.	63.29	4.1123E+00
U-235	1777.	185.71	1.1996E-01
NP-237	1275.	86.48	6.1448E-01
U-237	1177.	59.54	7.5032E-01
NP-238	695.	984.45	6.0071E-01
NP-239	1350.	106.12	2.6265E-01
PU-239	1483.	129.30	8.7710E+02
AM-241	1177.	59.54	7.1967E-01
AM-243	1195.	74.67	1.7047E-01

****
* 222-S Laboratory Counting Room 3-JUN-1995 20:42:25.13 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST1473-BLK
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D. Hamilton
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3345.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.48 sec

Verified by: D Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

WHC-SD-WM-DP-154, REV. 0

Sample Count Time: 3-JUN-1995 19:51:47.98
Decayed to: 3-JUN-1995 19:51:47.98
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	662.03*	49	1.99	1324.23	1319	12	62.5		CS-137	5.511E-02

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	5.511E-02	5.511E-02	3.445E-02	62.51	BMS
Total Activity :			5.511E-02	5.511E-02			
Grand Total Activity :			5.511E-02	5.511E-02			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	35.	477.59	1.9619E-01
NA-22	9.	1274.53	2.3286E-02
NA-24	10.	1368.55	2.6777E-02
K-40	143.	1460.75	9.7819E-01
SC-46	21.	1120.55	3.1980E-02
CR-51	38.	320.08	1.5328E-01
MN-54	14.	834.83	2.0265E-02
CO-56	18.	846.76	2.3596E-02
CO-57	90.	122.06	1.6374E-02
CO-58	16.	810.78	2.1701E-02
FE-59	13.	1099.25	4.4011E-02
CO-60	12.	1332.50	2.8180E-02
ZN-65	4.	1115.55	2.8684E-02
SE-75	64.	264.66	2.9755E-02
KR-85	46.	514.00	5.6460E+00
SR-85	46.	514.01	2.5497E-02
Y-88	1.	1836.06	1.0492E-02
Y-90	6.	1760.70	8.8555E-02
Y-91	20.	1204.67	1.1219E+01
NB-94	10.	871.09	1.7601E-02
NB-95	22.	765.78	2.3835E-02
ZR-95	19.	756.73	4.0492E-02
RU-103	25.	497.08	1.9192E-02
RURH-106	31.	621.93	4.7791E-01
AG-108m	19.	722.94	2.3198E-02
CD-109	63.	88.03	4.5432E-01
AG-110M	36.	657.76	2.8141E-02
SN-113	45.	391.69	3.0592E-02
TE-123m	87.	159.00	1.6633E-02
SB-124	29.	602.73	2.2678E-02
SB-125	33.	427.89	6.1421E-02
TE-125m	67.	109.27	4.6102E+00
I-129	65.	39.60	0.0000E+00
I-131	55.	364.48	2.5243E-02
XE-131m	67.	163.93	6.3397E-01
BA-133	44.	356.02	2.8913E-02
CS-134	31.	604.70	2.3703E-02
CS-136	14.	818.51	2.0175E-02
CS-138	3.	1435.86	3.4282E-02
CE-139	76.	165.85	1.6590E-02
BA-140	23.	537.31	7.3450E-02
LA-140	4.	1596.21	1.9735E-02
CE-141	83.	145.44	2.7508E-02
CE-144	76.	133.51	1.1413E-01
CEPR-144	76.	133.51	2.2810E-01
EU-152	6.	1408.01	9.9625E-02
EU-154	9.	1274.51	6.7806E-02
EU-155	76.	86.54	5.6617E-02
HF-181	34.	482.18	2.5024E-02
TA-182	48.	67.75	6.7941E-02
HG-203	65.	279.20	2.2282E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : WORKLIST1473-BLK Acquisition date : 3-JUN-1995 19:51:47

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	28.	569.70	2.1176E-02
TL-208	51.	277.36	2.5408E-01
PB-210	45.	46.50	0.0000E+00
BI-212	23.	727.18	3.5218E-01
PB-212	81.	238.63	4.1581E-02
BI-214	50.	609.31	6.6216E-02
PB-214	48.	351.92	9.2172E-02
RA-224	76.	240.99	4.4837E-01
RA-226	71.	186.10	3.9470E-01
AC-228	31.	911.21	1.2346E-01
TH-228	63.	84.37	1.4048E+00
TH-229	62.	88.47	6.5161E-02
U-232	51.	57.78	3.3336E+01
PA-233	57.	312.17	4.7835E-02
PA-234M	13.	1001.03	1.1652E+00
TH-234	58.	63.29	9.0644E-01
U-235	75.	185.71	2.4642E-02
NP-237	77.	86.48	1.5064E-01
U-237	54.	59.54	1.6138E-01
NP-238	16.	984.45	8.9904E-02
NP-239	64.	106.12	5.7155E-02
PU-239	77.	129.30	1.9974E+02
AM-241	54.	59.54	1.5479E-01
AM-243	79.	74.67	4.3799E-02

WHC-SD-WM-DP-154, REV. 0

****
* 222-S Laboratory Counting Room 3-JUN-1995 21:56:57.26 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T837-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D H Gruhlke
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3347.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:04.32 sec

Verified by: Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 21:06:16.44
Decayed to: 3-JUN-1995 21:06:16.44
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
10	26.67*	329	1.04	53.93	51	14	23.8	8.30E+00		
10	28.42*	498	2.32	57.42	51	14	28.7		I-129	0.000E+00
0	661.76*	26733	1.58	1323.70	1315	16	1.3		CS-137	30.2
0	1460.85*	18	1.50	2922.18	2915	15	145.4		K-40	0.319

Sample ID : S95T837-SAM Acquisition date : 3-JUN-1995 21:06:16

Total number of lines in spectrum 4
Number of unidentified lines 1
Number of lines tentatively identified by NID 3 75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.186E-01~~	~~3.186E-01~~	~~4.631E-01~~	~~145.36~~	BMG
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	
CS-137	30.00Y	1.000	3.022E+01	3.022E+01	0.038E+01	1.25	
	Total Activity :		3.053E+01	3.053E+01			
	Grand Total Activity :		3.053E+01	3.053E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : S95T837-SAM Acquisition date : 3-JUN-1995 21:06:16

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	919.	477.59	9.9844E-01
NA-22	17.	1274.53	3.1966E-02
NA-24	8.	1368.55	2.3951E-02
SC-46	20.	1120.55	3.1742E-02
CR-51	741.	320.08	6.7476E-01
MN-54	24.	834.83	2.7029E-02
CO-56	28.	846.76	2.9512E-02
CO-57	1225.	122.06	6.0573E-02
CO-58	26.	810.78	2.7189E-02
FE-59	15.	1099.25	4.6974E-02
CO-60	19.	1332.50	3.5049E-02
ZN-65	15.	1115.55	5.2932E-02
SE-75	808.	264.66	1.0559E-01
KR-85	474.	514.00	1.8140E+01
SR-85	474.	514.01	8.2015E-02
Y-88	4.	1836.06	2.0525E-02
Y-90	7.	1760.70	9.4697E-02
Y-91	15.	1204.67	9.7313E+00
NB-94	20.	871.09	2.5538E-02
NB-95	17.	765.78	2.1207E-02
ZR-95	32.	756.73	5.1782E-02
RU-103	497.	497.08	8.6271E-02
RURH-106	169.	621.93	1.1133E+00
AG-108m	35.	722.94	3.1609E-02
CD-109	1240.	88.03	2.0180E+00
AG-110M	429.	657.76	9.7581E-02
SN-113	769.	391.69	1.2603E-01
TE-123m	1097.	159.00	5.8978E-02
SB-124	163.	602.73	5.4107E-02
SB-125	893.	427.89	3.1719E-01
TE-125m	1234.	109.27	1.9790E+01
I-131	714.	364.48	9.0820E-02
XE-131m	1035.	163.93	2.4915E+00
BA-133	740.	356.02	1.1874E-01
CS-134	170.	604.70	5.5390E-02
CS-136	18.	818.51	2.3057E-02
CS-138	5.	1435.86	4.0519E-02
CE-139	1048.	165.85	6.1813E-02
BA-140	322.	537.31	2.7608E-01
LA-140	6.	1596.21	2.3278E-02
CE-141	1119.	145.44	1.0111E-01
CE-144	1153.	133.51	4.4489E-01
CEPR-144	1154.	133.51	8.8901E-01
EU-152	14.	1408.01	1.5127E-01
EU-154	17.	1274.51	9.2759E-02
EU-155	1272.	86.54	2.3173E-01
HF-181	690.	482.18	1.1210E-01
TA-182	1098.	67.75	3.2344E-01
HG-203	827.	279.20	7.9650E-02
BI-207	208.	569.70	5.8161E-02
TL-208	800.	277.36	1.0067E+00

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	808.	46.50	0.0000E+00
BI-212	22.	727.18	3.4340E-01
PB-212	985.	238.63	1.4500E-01
BI-214	191.	609.31	1.2885E-01
PB-214	771.	351.92	3.7146E-01
RA-224	1010.	240.99	1.6298E+00
RA-226	1224.	186.10	1.6384E+00
AC-228	28.	911.21	1.1622E-01
TH-228	1185.	84.37	6.0758E+00
TH-229	1236.	88.47	2.9201E-01
U-232	941.	57.78	1.4360E+02
PA-233	704.	312.17	1.6851E-01
PA-234M	17.	1001.03	1.3120E+00
TH-234	1029.	63.29	3.8134E+00
U-235	1226.	185.71	9.9650E-02
NP-237	1272.	86.48	6.1377E-01
U-237	1009.	59.54	6.9467E-01
NP-238	17.	984.45	9.4508E-02
NP-239	1186.	106.12	2.4621E-01
PU-239	1227.	129.30	7.9803E+02
AM-241	1009.	59.54	6.6632E-01
AM-243	1167.	74.67	1.6845E-01

****
* 222-S Laboratory Counting Room 3-JUN-1995 22:50:25.45 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T837-DUP
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D. H. Wilson
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3348.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:04.47 sec

Verified by: B Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 21:59:45.28
Decayed to: 3-JUN-1995 21:59:45.28
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	27.28*	565	1.64	55.14	51	10	21.8			
0	661.77*	27829	1.57	1323.72	1315	17	1.2		CS-137	31.5
0	1173.04	13	1.51	2346.35	2344	7	75.0			

Total number of lines in spectrum 3
Number of unidentified lines 1
Number of lines tentatively identified by NID 2 66.67%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	3.145E+01	3.145E+01	0.039E+01	1.23	
Total Activity :			3.145E+01	3.145E+01			
Grand Total Activity :			3.145E+01	3.145E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T837-DUP Acquisition date : 3-JUN-1995 21:59:45

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE 7	864.	477.59	9.6831E-01
NA-22	15.	1274.53	3.0198E-02
NA-24	5.	1368.55	1.8935E-02
K-40	127.	1460.75	9.2158E-01
SC-46	27.	1120.55	3.6793E-02
CR-51	727.	320.08	6.6839E-01
MN-54	24.	834.83	2.6660E-02
CO-56	23.	846.76	2.6602E-02
CO-57	1286.	122.06	6.2050E-02
CO-58	20.	810.78	2.3922E-02
FE-59	20.	1099.25	5.4391E-02
CO-60	13.	1332.50	2.9226E-02
ZN-65	21.	1115.55	6.3753E-02
SE-75	889.	264.66	1.1074E-01
KR-85	455.	514.00	1.7762E+01
SR-85	454.	514.01	8.0292E-02
Y-88	3.	1836.06	1.8104E-02
Y-90	7.	1760.70	9.4337E-02
Y-91	16.	1204.67	9.9873E+00
NB-94	27.	871.09	2.9587E-02
NB-95	26.	765.78	2.5702E-02
ZR-95	30.	756.73	5.0321E-02
RU-103	538.	497.08	8.9710E-02
RURH-106	166.	621.93	1.1036E+00
AG-108m	30.	722.94	2.8971E-02
CD-109	1280.	88.03	2.0503E+00
AG-110M	464.	657.76	1.0148E-01
SN-113	816.	391.69	1.2986E-01
TE-123m	1102.	159.00	5.9099E-02
SB-124	176.	602.73	5.6181E-02
SB-125	911.	427.89	3.2036E-01
TE-125m	1380.	109.27	2.0931E+01
I-129	878.	39.60	0.0000E+00
I-131	810.	364.48	9.6718E-02
XE-131m	1096.	163.93	2.5638E+00
BA-133	733.	356.02	1.1812E-01
CS-134	182.	604.70	5.7414E-02
CS-136	29.	818.51	2.8878E-02
CS-138	8.	1435.86	5.2930E-02
CE-139	1066.	165.85	6.2337E-02
BA-140	335.	537.31	2.8171E-01
LA-140	5.	1596.21	2.1083E-02
CE-141	1121.	145.44	1.0121E-01
CE-144	1218.	133.51	4.5723E-01
CEPR-144	1218.	133.51	9.1368E-01
EU-152	8.	1408.01	1.1504E-01
EU-154	15.	1274.51	8.7851E-02
EU-155	1349.	86.54	2.3865E-01
HF-181	702.	482.18	1.1312E-01
TA-182	1119.	67.75	3.2649E-01
HG-203	870.	279.20	8.1672E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T837-DUP Acquisition date : 3-JUN-1995 21:59:45

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	183.	569.70	5.4564E-02
TL-208	803.	277.36	1.0082E+00
PB-210	905.	46.50	0.0000E+00
BI-212	39.	727.18	4.5384E-01
PB-212	1020.	238.63	1.4756E-01
BI-214	199.	609.31	1.3146E-01
PB-214	777.	351.92	3.7289E-01
RA-224	1003.	240.99	1.6240E+00
RA-226	1243.	186.10	1.6506E+00
AC-228	36.	911.21	1.3334E-01
TH-228	1293.	84.37	6.3458E+00
TH-229	1238.	88.47	2.9226E-01
U-232	935.	57.78	1.4314E+02
PA-233	736.	312.17	1.7236E-01
PA-234M	16.	1001.03	1.2880E+00
TH-234	1074.	63.29	3.8955E+00
U-235	1221.	185.71	9.9443E-02
NP-237	1354.	86.48	6.3338E-01
U-237	999.	59.54	6.9134E-01
NP-238	22.	984.45	1.0667E-01
NP-239	1246.	106.12	2.5241E-01
PU-239	1225.	129.30	7.9718E+02
AM-241	999.	59.54	6.6314E-01
AM-243	1175.	74.67	1.6902E-01

WHC-SD-WM-DP-154, REV. 0

```
********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 23:44:56.05                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T840-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3349.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:07.29 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 22:54:14.98
Decayed to:               3-JUN-1995 22:54:14.98
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  DM
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by: _____

date: _____

Verified by: D Bachelor 6/5/95

WHC-SD-WM-DP-154, REV. 0

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	26.63*	510	1.32	53.84	51	7	23.0			
0	661.76*	47505	1.56	1323.70	1316	17	0.9		CS-137	53.7
0	1460.76*	14	1.33	2922.01	2914	16	180.1		K-40	0.240

Total number of lines in spectrum 3
Number of unidentified lines 1
Number of lines tentatively identified by NID 2 66.67%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~2.402E-01~~	~~2.402E-01~~	~~4.326E-01~~	~~180.12~~	BKG
CS-137	30.00Y	1.000	5.369E+01	5.369E+01	0.050E+01	0.94	
	Total Activity :		5.393E+01	5.393E+01			
	Grand Total Activity :		5.393E+01	5.393E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1525.	477.59	1.2866E+00
NA-22	30.	1274.53	4.2674E-02
NA-24	4.	1368.55	1.6936E-02
SC-46	31.	1120.55	3.8958E-02
CR-51	1282.	320.08	8.8775E-01
MN-54	33.	834.83	3.1613E-02
CO-56	27.	846.76	2.8935E-02
CO-57	2143.	122.06	8.0122E-02
CO-58	28.	810.78	2.8421E-02
FE-59	21.	1099.25	5.6071E-02
CO-60	29.	1332.50	4.3827E-02
ZN-65	17.	1115.55	5.6316E-02
SE-75	1529.	264.66	1.4523E-01
KR-85	796.	514.00	2.3504E+01
SR-85	796.	514.01	1.0624E-01
Y-88	7.	1836.06	2.7759E-02
Y-90	1.	1760.70	3.8286E-02
Y-91	16.	1204.67	1.0113E+01
NB-94	28.	871.09	2.9880E-02
NB-95	29.	765.78	2.7558E-02
ZR-95	36.	756.73	5.5375E-02
RU-103	946.	497.08	1.1899E-01
RURH-106	253.	621.93	1.3625E+00
AG-108m	57.	722.94	4.0210E-02
CD-109	2122.	88.03	2.6398E+00
AG-110M	766.	657.76	1.3034E-01
SN-113	1358.	391.69	1.6751E-01
TE-123m	1868.	159.00	7.6960E-02
SB-124	291.	602.73	7.2192E-02
SB-125	1476.	427.89	4.0779E-01
TE-125m	2055.	109.27	2.5541E+01
I-129	1448.	39.60	0.0000E+00
I-131	1249.	364.48	1.2014E-01
XE-131m	1835.	163.93	3.3173E+00
BA-133	1273.	356.02	1.5572E-01
CS-134	291.	604.70	7.2486E-02
CS-136	36.	818.51	3.2206E-02
CS-138	7.	1435.86	4.8842E-02
CE-139	1846.	165.85	8.2044E-02
BA-140	553.	537.31	3.6185E-01
LA-140	6.	1596.21	2.4171E-02
CE-141	1917.	145.44	1.3235E-01
CE-144	1963.	133.51	5.8045E-01
CEPR-144	1963.	133.51	1.1598E+00
EU-152	10.	1408.01	1.2646E-01
EU-154	29.	1274.51	1.2381E-01
EU-155	2166.	86.54	3.0244E-01
HF-181	1255.	482.18	1.5120E-01
TA-182	1801.	67.75	4.1425E-01
HG-203	1355.	279.20	1.0194E-01
BI-207	352.	569.70	7.5661E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T840-SAM Acquisition date : 3-JUN-1995 22:54:14

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	1365.	277.36	1.3145E+00
PB-210	1382.	46.50	0.0000E+00
BI-212	49.	727.18	5.1367E-01
PB-212	1631.	238.63	1.8655E-01
BI-214	337.	609.31	1.7103E-01
PB-214	1250.	351.92	4.7315E-01
RA-224	1686.	240.99	2.1061E+00
RA-226	2038.	186.10	2.1135E+00
AC-228	25.	911.21	1.1026E-01
TH-228	2079.	84.37	8.0482E+00
TH-229	2139.	88.47	3.8411E-01
U-232	1539.	57.78	1.8361E+02
PA-233	1266.	312.17	2.2600E-01
PA-234M	21.	1001.03	1.4827E+00
TH-234	1704.	63.29	4.9074E+00
U-235	1986.	185.71	1.2683E-01
NP-237	2164.	86.48	8.0064E-01
U-237	1650.	59.54	8.8838E-01
NP-238	26.	984.45	1.1513E-01
NP-239	2054.	106.12	3.2399E-01
PU-239	1948.	129.30	1.0055E+03
AM-241	1650.	59.54	8.5212E-01
AM-243	2017.	74.67	2.2141E-01

WHC-SD-WM-DP-154, REV 0

```
********************************************************************************
* 222-S Laboratory Counting Room     4-JUN-1995 00:45:30.93                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:              S95T840-DUP
Sample Size:            1.00000E-03 LI
Dilution Factor:        1.00000E+00
Conversion LI to LI:    1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:            GEA3
File Number:            dka300:[spec.GEA3]3g3350.cnf
Geometry:               42
Description:
Count Time:             0 00:50:00.00 sec
Real Time:              0 00:50:07.26 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:      3-JUN-1995 23:54:47.11
Decayed to:             3-JUN-1995 23:54:47.11
Standard Deviations:    2
Analysis Library:       ENVGEA
Analyst:                EMB
Background Subtract:    DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by: Em Baccke

date: 6-4-95

Verified by: B Bachelor 6/5/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
7	26.73*	640	1.07	54.05	51	13	15.8	1.45E+01		
7	28.16*	490	1.44	56.91	51	13	31.1		I-129	0.000E+00
0	661.76*	47644	1.56	1323.70	1315	18	0.9		CS-137	53.9
0	1274.80	18	2.35	2549.93	2542	13	85.7		NA-22	3.044E-02

Sample ID : S95T840-DUP Acquisition date : 3-JUN-1995 23:54:47

Total number of lines in spectrum 4
Number of unidentified lines 1
Number of lines tentatively identified by NID 3 75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~3.044E-02~~	~~3.044E-02~~	~~2.608E-02~~	~~85.67~~	? BKG
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	?
CS-137	30.00Y	1.000	5.385E+01	5.385E+01	0.050E+01	0.93	
		Total Activity :	5.388E+01	5.388E+01			
		Grand Total Activity :	5.388E+01	5.388E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : S95T840-DUP Acquisition date : 3-JUN-1995 23:54:47

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1397.	477.59	1.2315E+00
NA-24	7.	1368.55	2.2124E-02
K-40	138.	1460.75	9.6132E-01
SC-46	21.	1120.55	3.1937E-02
CR-51	1263.	320.08	8.8121E-01
MN-54	27.	834.83	2.8608E-02
CO-56	21.	846.76	2.5282E-02
CO-57	2231.	122.06	8.1745E-02
CO-58	21.	810.78	2.4406E-02
FE-59	18.	1099.25	5.2618E-02
CO-60	16.	1332.50	3.2089E-02
ZN-65	19.	1115.55	5.9667E-02
SE-75	1412.	264.66	1.3956E-01
KR-85	764.	514.00	2.3021E+01
SR-85	764.	514.01	1.0409E-01
Y-88	6.	1836.06	2.5700E-02
Y-90	5.	1760.70	7.9851E-02
Y-91	23.	1204.67	1.2024E+01
NB-94	29.	871.09	3.0741E-02
NB-95	30.	765.78	2.7644E-02
ZR-95	33.	756.73	5.2608E-02
RU-103	941.	497.08	1.1865E-01
RURH-106	281.	621.93	1.4369E+00
AG-108m	38.	722.94	3.2729E-02
CD-109	1996.	88.03	2.5603E+00
AG-110M	733.	657.76	1.2753E-01
SN-113	1354.	391.69	1.6729E-01
TE-123m	1778.	159.00	7.5075E-02
SB-124	288.	602.73	7.1788E-02
SB-125	1531.	427.89	4.1525E-01
TE-125m	2054.	109.27	2.5535E+01
I-131	1236.	364.48	1.1950E-01
XE-131m	1790.	163.93	3.2767E+00
BA-133	1223.	356.02	1.5261E-01
CS-134	303.	604.70	7.4017E-02
CS-136	31.	818.51	2.9860E-02
CS-138	3.	1435.86	3.1974E-02
CE-139	1767.	165.85	8.0260E-02
BA-140	517.	537.31	3.5012E-01
LA-140	5.	1596.21	2.1381E-02
CE-141	1857.	145.44	1.3026E-01
CE-144	1993.	133.51	5.8473E-01
CEPR-144	1992.	133.51	1.1683E+00
EU-152	8.	1408.01	1.1504E-01
EU-154	26.	1274.51	1.1714E-01
EU-155	2114.	86.54	2.9874E-01
HF-181	1256.	482.18	1.5124E-01
TA-182	1854.	67.75	4.2032E-01
HG-203	1388.	279.20	1.0318E-01
BI-207	324.	569.70	7.2613E-02
TL-208	1411.	277.36	1.3367E+00

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T840-DUP Acquisition date : 3-JUN-1995 23:54:47

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	1401.	46.50	0.0000E+00
BI-212	34.	727.18	4.2287E-01
PB-212	1789.	238.63	1.9539E-01
BI-214	281.	609.31	1.5633E-01
PB-214	1197.	351.92	4.6303E-01
RA-224	1725.	240.99	2.1298E+00
RA-226	2107.	186.10	2.1492E+00
AC-228	37.	911.21	1.3430E-01
TH-228	2159.	84.37	8.2005E+00
TH-229	1966.	88.47	3.6831E-01
U-232	1591.	57.78	1.8671E+02
PA-233	1242.	312.17	2.2385E-01
PA-234M	23.	1001.03	1.5298E+00
TH-234	1765.	63.29	4.9946E+00
U-235	2047.	185.71	1.2876E-01
NP-237	2119.	86.48	7.9231E-01
U-237	1595.	59.54	8.7339E-01
NP-238	24.	984.45	1.1219E-01
NP-239	2111.	106.12	3.2847E-01
PU-239	2071.	129.30	1.0366E+03
AM-241	1595.	59.54	8.3774E-01
AM-243	2046.	74.67	2.2301E-01

LABCORE Data Entry Template for Worklist# 1474

Analyst: EAL **Instrument:** GEA00 #2 LAD 6-9-95 **Book #** 12/852

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 1 mL sample. R(0)-PPB WHC-SD-WM-DP-154, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		1 STD				@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
		1 STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1 STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1474

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T000848	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T000848	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000059	BX-109	5 SAMPLE	S95T000851	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1474

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	6 DUP	S95T000851	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1474

Analyst Signature Date 06/03/95

Analyst Signature Date 6.5.95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		2.16E+01	2.16E-02	1.3			0.00E+00			
Work List	CS-137		2.50E+01	2.50E-02	1.5			0.00E+00			
1474				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1474				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
EAL				0.00E+00				0.00E+00			
Date											
06/03/95											
Time											
03:52 AM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.9276 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	2.53E-02	1.31E-02				ERR			
Work List	EU-154	<	6.99E-02	3.62E-02				ERR			
1474	EU-155	<	5.21E-02	2.70E-02				ERR			
Test Code	CS-137	<	5.89E-02	3.05E-02				ERR			
@GEA-02	AM-241	<	1.53E-01	7.94E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T848				0.00E+00				ERR			
				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
DUP+ Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
EAL				0.00E+00				ERR			
Date											
06/03/95											
Time	REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF										
03:52 AM	AVERAGE = (SAMPLE + DUPLICATE) / 2										
	RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100										

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.9276 < Enter SAMPLE g/L 1.8924 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	4.06E-02	2.11E-02		<	2.56E-02	1.35E-02		< 1.73E-02	NA
Work List	EU-154	<	1.08E-01	5.62E-02		<	9.31E-02	4.92E-02		< 5.27E-02	NA
1474	EU-155	<	2.39E-01	1.24E-01		<	2.35E-01	1.24E-01		< 1.24E-01	NA
Test Code	CS-137		1.63E+01	8.46E+00	1.71		1.58E+01	8.33E+00	1.74	8.40E+00	1.5
@GEA-02	AM-241	<	6.49E-01	3.37E-01		<	6.31E-01	3.34E-01		< 3.35E-01	NA
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
S95T848				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
EAL				0.00E+00				0.00E+00			
Date											
06/03/95											
Time											
03:52 AM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.0832 < Enter SAMPLE g/L 2.0784 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	2.77E-02	1.33E-02		<	3.20E-02	1.64E-02		<	1.43E-02	NA
Work List	EU-154	<	7.93E-02	3.81E-02		<	1.10E-01	5.31E-02		<	4.56E-02	NA
1474	EU-155	<	2.28E-01	1.09E-01		<	2.27E-01	1.09E-01		<	1.09E-01	NA
Test Code	CS-137		2.23E+01	1.07E+01	1.46		2.22E+01	1.07E+01	1.46		1.07E+01	0.0
@GEA-02	AM-241	<	6.50E-01	3.12E-01		<	6.11E-01	2.94E-01		<	3.03E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T851				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
EAL				0.00E+00				0.00E+00				
Date												
06/03/95												
Time												
03:52 AM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/06/95

Approved by: [signature] Date: 6/6/95

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 3-JUN-1995 14:08:38.80 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST1474-STD
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: Raymond
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3337.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:10.01 sec

Verified by: BBMichels 6/5/95

WHC-SD-WM-DP-154, REV 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 13:17:51.63
Decayed to: 3-JUN-1995 13:17:51.63
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: VR
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	26.76*	432	1.35	54.09	51	7	24.3			
0	33.33	141	1.50	67.25	63	8	108.2			
0	563.42	482	1.27	1127.04	1122	11	25.5		CS-134	4.83
0	569.43	1063	1.57	1139.06	1133	13	13.9		CS-134	5.84
0	604.79	5769	1.52	1209.76	1203	14	3.6		CS-134	5.28
0	661.71*	22081	1.52	1323.60	1316	17	1.5		CS-137	25.0
0	795.89	4117	1.64	1591.94	1583	16	4.6		CS-134	5.44
0	802.09	454	1.84	1604.34	1599	14	27.7		CS-134	5.91
0	1173.13	13873	1.96	2346.53	2340	15	1.8		CO-60	21.9
0	1332.37	12184	2.04	2665.12	2656	18	1.9		CO-60	21.3
0	1365.11	112	2.58	2730.62	2722	15	27.4			
0	1399.60	64	2.62	2799.62	2790	18	42.9			

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 921 TO 943.

Sample ID : WORKLIST1474-STD Acquisition date : 3-JUN-1995 13:17:51

Total number of lines in spectrum 12
Number of unidentified lines 4
Number of lines tentatively identified by NID 8 66.67%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.160E+01	2.160E+01	0.028E+01	1.30	
CS-134	2.06Y	1.000	5.350E+00	5.350E+00	0.146E+00	2.74	
CS-137	30.00Y	1.000	2.496E+01	2.496E+01	0.037E+01	1.50	
	Total Activity :		5.191E+01	5.191E+01			
	Grand Total Activity :		5.191E+01	5.191E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1351.	477.59	1.2108E+00
NA-22	88.	1274.53	7.3593E-02
NA-24	63.	1368.55	6.7122E-02
K-40	148.	1460.75	9.9622E-01
SC-46	526.	1120.55	1.6151E-01
CR-51	1385.	320.08	9.2257E-01
MN-54	668.	834.83	1.4131E-01
CO-56	700.	846.76	1.4648E-01
CO-57	1463.	122.06	6.6202E-02
CO-58	634.	810.78	1.3498E-01
FE-59	689.	1099.25	3.2188E-01
ZN-65	598.	1115.55	3.3850E-01
SE-75	1601.	264.66	1.4863E-01
KR-85	934.	514.00	2.5459E+01
SR-85	934.	514.01	1.1512E-01
Y-88	9.	1836.06	3.2267E-02
Y-90	12.	1760.70	1.2387E-01
Y-91	170.	1204.67	3.2515E+01
NB-94	734.	871.09	1.5373E-01
NB-95	535.	765.78	1.1770E-01
ZR-95	526.	756.73	2.1156E-01
RU-103	973.	497.08	1.2064E-01
RURH-106	665.	621.93	2.2099E+00
AG-108m	541.	722.94	1.2379E-01
CD-109	1307.	88.03	2.0720E+00
AG-110M	885.	657.76	1.4015E-01
SN-113	1350.	391.69	1.6707E-01
TE-123m	1526.	159.00	6.9539E-02
SB-124	4445.	602.73	2.8218E-01
SB-125	1368.	427.89	3.9249E-01
TE-125m	1363.	109.27	2.0804E+01
I-129	1292.	39.60	0.0000E+00
I-131	1334.	364.48	1.2413E-01
XE-131m	1525.	163.93	3.0240E+00
BA-133	1283.	356.02	1.5631E-01
CS-136	617.	818.51	1.3406E-01
CS-138	26.	1435.86	9.4347E-02
CE-139	1513.	165.85	7.4262E-02
BA-140	808.	537.31	4.3765E-01
LA-140	17.	1596.21	4.0687E-02
CE-141	1534.	145.44	1.1842E-01
CE-144	1478.	133.51	5.0356E-01
CEPR-144	1478.	133.51	1.0062E+00
EU-152	25.	1408.01	2.0535E-01
EU-154	88.	1274.51	2.1376E-01
EU-155	1264.	86.54	2.3101E-01
HF-181	1097.	482.18	1.4140E-01
TA-182	1193.	67.75	3.3718E-01
HG-203	1479.	279.20	1.0651E-01
BI-207	1788.	569.70	1.7050E-01
TL-208	1525.	277.36	1.3893E+00

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	1132.	46.50	0.0000E+00
BI-212	556.	727.18	1.7222E+00
PB-212	1764.	238.63	1.9400E-01
BI-214	718.	609.31	2.4981E-01
PB-214	1381.	351.92	4.9762E-01
RA-224	1787.	240.99	2.1683E+00
RA-226	1729.	186.10	1.9470E+00
AC-228	843.	911.21	6.4317E-01
TH-228	1250.	84.37	6.2407E+00
TH-229	1310.	88.47	3.0060E-01
U-232	1182.	57.78	1.6094E+02
PA-233	1435.	312.17	2.4056E-01
PA-234M	678.	1001.03	8.3831E+00
TH-234	1217.	63.29	4.1471E+00
U-235	1731.	185.71	1.1841E-01
NP-237	1261.	86.48	6.1110E-01
U-237	1214.	59.54	7.6192E-01
NP-238	704.	984.45	6.0452E-01
NP-239	1304.	106.12	2.5814E-01
PU-239	1512.	129.30	8.8585E+02
AM-241	1214.	59.54	7.3082E-01
AM-243	1179.	74.67	1.6932E-01

********** **********
* 222-S Laboratory Counting Room 3-JUN-1995 15:02:22.72 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	WORKLIST1474-BLK
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: _____

date: _____

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA3
File Number:	dka300:[spec.GEA3]3g3338.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:00.48 sec

Verified by: BBMachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	3-JUN-1995 14:11:46.01
Decayed to:	3-JUN-1995 14:11:46.01
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	VR
Background Subtract:	DKA300:[SPEC.GEA3]3GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.72*	52	1.50	1323.62	1318	12	58.3		CS-137	5.887E-02
0	861.94	26	2.02	1724.05	1717	19	80.0			
0	910.91*	21	2.43	1822.00	1814	15	59.9			
4	1120.95*	19	2.67	2242.14	2236	40	57.5	1.80E+00		
4	1132.10	22	2.68	2264.45	2236	40	45.6			

Sample ID : WORKLIST1474-BLK Acquisition date : 3-JUN-1995 14:11:46

Total number of lines in spectrum 5
Number of unidentified lines 1
Number of lines tentatively identified by NID 4 80.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~CS 137~~	~~30.00Y~~	1.000	~~5.887E-02~~	~~5.887E-02~~	~~3.430E-02~~	~~58.26~~	BKG
Total Activity :			5.887E-02	5.887E-02			
Grand Total Activity :			5.887E-02	5.887E-02			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	17.	569.70	1.6686E-02
TL-208	71.	277.36	2.9956E-01
PB-210	53.	46.50	0.0000E+00
BI-212	27.	727.18	3.8239E-01
PB-212	85.	238.63	4.2704E-02
BI-214	50.	609.31	6.6005E-02
PB-214	55.	351.92	9.8979E-02
RA-224	80.	240.99	4.5848E-01
RA-226	71.	186.10	3.9540E-01
AC-228	33.	911.21	1.2737E-01
TH-228	72.	84.37	1.5002E+00
TH-229	77.	88.47	7.2746E-02
U-232	50.	57.78	3.3060E+01
PA-233	58.	312.17	4.8344E-02
PA-234M	15.	1001.03	1.2233E+00
TH-234	59.	63.29	9.1312E-01
U-235	73.	185.71	2.4362E-02
NP-237	64.	86.48	1.3804E-01
U-237	53.	59.54	1.5946E-01
NP-238	15.	984.45	8.8845E-02
NP-239	86.	106.12	6.6182E-02
PU-239	87.	129.30	2.1291E+02
AM-241	53.	59.54	1.5296E-01
AM-243	80.	74.67	4.4067E-02

Sample ID : WORKLIST1474-BLK Acquisition date : 3-JUN-1995 14:11:46

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	35.	477.59	1.9407E-01
NA-22	9.	1274.53	2.4049E-02
NA-24	7.	1368.55	2.2404E-02
K-40	129.	1460.75	9.3058E-01
SC-46	21.	1120.55	3.1980E-02
CR-51	50.	320.08	1.7539E-01
MN-54	16.	834.83	2.2101E-02
CO-56	14.	846.76	2.0949E-02
CO-57	75.	122.06	1.4960E-02
CO-58	13.	810.78	1.9685E-02
FE-59	12.	1099.25	4.3094E-02
CO-60	10.	1332.50	2.5282E-02
ZN-65	10.	1115.55	4.2706E-02
SE-75	67.	264.66	3.0447E-02
KR-85	49.	514.00	5.8337E+00
SR-85	49.	514.01	2.6342E-02
Y-88	2.	1836.06	1.4838E-02
Y-90	5.	1760.70	8.2674E-02
Y-91	9.	1204.67	7.6473E+00
NB-94	10.	871.09	1.7872E-02
NB-95	21.	765.78	2.3399E-02
ZR-95	21.	756.73	4.1810E-02
RU-103	33.	497.08	2.2179E-02
RURH-106	25.	621.93	4.3000E-01
AG-108m	17.	722.94	2.1764E-02
CD-109	76.	88.03	4.9920E-01
AG-110M	17.	657.76	1.9469E-02
SN-113	41.	391.69	2.9253E-02
TE-123m	65.	159.00	1.4341E-02
SB-124	25.	602.73	2.1253E-02
SB-125	38.	427.89	6.5500E-02
TE-125m	67.	109.27	4.6025E+00
I-129	50.	39.60	0.0000E+00
I-131	43.	364.48	2.2226E-02
XE-131m	78.	163.93	6.8338E-01
BA-133	47.	356.02	2.9975E-02
CS-134	23.	604.70	2.0260E-02
CS-136	12.	818.51	1.8676E-02
CS-138	5.	1435.86	4.1237E-02
CE-139	71.	165.85	1.6071E-02
BA-140	24.	537.31	7.5195E-02
LA-140	2.	1596.21	1.3955E-02
CE-141	75.	145.44	2.6167E-02
CE-144	68.	133.51	1.0836E-01
CEPR-144	68.	133.51	2.1650E-01
EU-152	6.	1408.01	9.8237E-02
EU-154	9.	1274.51	6.9868E-02
EU-155	64.	86.54	5.2059E-02
HF-181	32.	482.18	2.4216E-02
TA-182	59.	67.75	7.5094E-02
HG-203	68.	279.20	2.2780E-02

WHC-SD-WM-DP-154, REV.0

****
* 222-S Laboratory Counting Room 3-JUN-1995 16:13:56.17 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T848-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

D. Hamilton

date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3340.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:03.22 sec

Verified by:

B Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 15:23:17.90
Decayed to: 3-JUN-1995 15:23:17.90
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: VR
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	27.80*	815	2.32	56.19	51	13	18.5			
0	661.73*	14434	1.55	1323.64	1315	18	1.7		CS-137	16.3
0	1460.55*	20	1.54	2921.58	2913	18	127.6		K-40	0.346
0	1765.02*	8	0.79	3530.89	3525	13	112.2			

Sample ID : S95T848-SAM Acquisition date : 3-JUN-1995 15:23:17

Total number of lines in spectrum	4	
Number of unidentified lines	1	
Number of lines tentatively identified by NID	3	75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.458E-01~~	~~3.458E-01~~	~~4.411E-01~~	~~127.58~~	~~K~~
CS-137	30.00Y	1.000	1.631E+01	1.631E+01	0.028E+01	1.71	
Total Activity :			1.666E+01	1.666E+01			
Grand Total Activity :			1.666E+01	1.666E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	530.	477.59	7.5860E-01
NA-22	23.	1274.53	3.7303E-02
NA-24	6.	1368.55	2.0439E-02
SC-46	30.	1120.55	3.8763E-02
CR-51	465.	320.08	5.3458E-01
MN-54	28.	834.83	2.9137E-02
CO-56	18.	846.76	2.3290E-02
CO-57	1209.	122.06	6.0182E-02
CO-58	36.	810.78	3.2364E-02
FE-59	10.	1099.25	3.9175E-02
CO-60	25.	1332.50	4.0608E-02
ZN-65	11.	1115.55	4.5038E-02
SE-75	647.	264.66	9.4461E-02
KR-85	278.	514.00	1.3880E+01
SR-85	277.	514.01	6.2737E-02
Y-88	1.	1836.06	1.0492E-02
Y-90	3.	1760.70	6.2618E-02
Y-91	18.	1204.67	1.0561E+01
NB-94	30.	871.09	3.0825E-02
NB-95	23.	765.78	2.4545E-02
ZR-95	24.	756.73	4.5190E-02
RU-103	318.	497.08	6.8956E-02
RURH-106	95.	621.93	8.3458E-01
AG-108m	34.	722.94	3.0828E-02
CD-109	1354.	88.03	2.1090E+00
AG-110M	258.	657.76	7.5690E-02
SN-113	484.	391.69	1.0005E-01
TE-123m	988.	159.00	5.5974E-02
SB-124	127.	602.73	4.7746E-02
SB-125	531.	427.89	2.4449E-01
TE-125m	1314.	109.27	2.0422E+01
I-129	729.	39.60	0.0000E+00
I-131	482.	364.48	7.4649E-02
XE-131m	929.	163.93	2.3597E+00
BA-133	492.	356.02	9.6783E-02
CS-134	123.	604.70	4.7244E-02
CS-136	32.	818.51	3.0495E-02
CS-138	5.	1435.86	4.0512E-02
CE-139	928.	165.85	5.8153E-02
BA-140	193.	537.31	2.1372E-01
LA-140	11.	1596.21	3.2074E-02
CE-141	1027.	145.44	9.6858E-02
CE-144	1142.	133.51	4.4275E-01
CEPR-144	1142.	133.51	8.8472E-01
EU-152	11.	1408.01	1.3384E-01
EU-154	23.	1274.51	1.0828E-01
EU-155	1358.	86.54	2.3944E-01
HF-181	423.	482.18	8.7750E-02
TA-182	1121.	67.75	3.2681E-01
HG-203	572.	279.20	6.6270E-02
BI-207	127.	569.70	4.5476E-02

WHC-SD-WM-DP-154, REV.0

Sample ID : S95T848-SAM Acquisition date : 3-JUN-1995 15:23:17

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	540.	277.36	8.2679E-01
PB-210	735.	46.50	0.0000E+00
BI-212	37.	727.18	4.4455E-01
PB-212	758.	238.63	1.2717E-01
BI-214	147.	609.31	1.1292E-01
PB-214	478.	351.92	2.9229E-01
RA-224	709.	240.99	1.3655E+00
RA-226	927.	186.10	1.4255E+00
AC-228	32.	911.21	1.2621E-01
TH-228	1358.	84.37	6.5043E+00
TH-229	1336.	88.47	3.0363E-01
U-232	894.	57.78	1.3997E+02
PA-233	441.	312.17	1.3343E-01
PA-234M	13.	1001.03	1.1370E+00
TH-234	1047.	63.29	3.8473E+00
U-235	924.	185.71	8.6513E-02
NP-237	1356.	86.48	6.3379E-01
U-237	956.	59.54	6.7635E-01
NP-238	16.	984.45	9.2235E-02
NP-239	1384.	106.12	2.6601E-01
PU-239	1234.	129.30	8.0018E+02
AM-241	956.	59.54	6.4874E-01
AM-243	1213.	74.67	1.7169E-01

********** 222-S Laboratory Counting Room 3-JUN-1995 17:07:26.02 *

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	S95T848-DUP
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: D. H. Gribbin

date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA3
File Number:	dka300:[spec.GEA3]3g3341.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:03.11 sec

Verified by: [illegible] 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	3-JUN-1995 16:16:38.65
Decayed to:	3-JUN-1995 16:16:38.65
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	DM
Background Subtract:	DKA300:[SPEC.GEA3]3GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	26.65*	237	1.18	53.89	51	7	35.9			
0	661.73*	13949	1.55	1323.64	1315	16	1.7		CS-137	15.8

Sample ID : S95T848-DUP Acquisition date : 3-JUN-1995 16:16:38

Total number of lines in spectrum	2	
Number of unidentified lines	1	
Number of lines tentatively identified by NID	1	50.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	1.577E+01	1.577E+01	0.027E+01	1.74	
Total Activity :			1.577E+01	1.577E+01			
Grand Total Activity :			1.577E+01	1.577E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	482.	477.59	7.2315E-01
NA-22	17.	1274.53	3.1982E-02
NA-24	7.	1368.55	2.2123E-02
K-40	139.	1460.75	9.6599E-01
SC-46	25.	1120.55	3.5418E-02
CR-51	469.	320.08	5.3698E-01
MN-54	21.	834.83	2.5078E-02
CO-56	20.	846.76	2.4813E-02
CO-57	1239.	122.06	6.0922E-02
CO-58	25.	810.78	2.7011E-02
FE-59	13.	1099.25	4.3454E-02
CO-60	10.	1332.50	2.5602E-02
ZN-65	18.	1115.55	5.9076E-02
SE-75	556.	264.66	8.7617E-02
KR-85	294.	514.00	1.4279E+01
SR-85	294.	514.01	6.4545E-02
Y-88	2.	1836.06	1.4838E-02
Y-90	9.	1760.70	1.0688E-01
Y-91	19.	1204.67	1.0852E+01
NB-94	25.	871.09	2.8217E-02
NB-95	28.	765.78	2.7074E-02
ZR-95	31.	756.73	5.1588E-02
RU-103	303.	497.08	6.7336E-02
RURH-106	117.	621.93	9.2672E-01
AG-108m	39.	722.94	3.3433E-02
CD-109	1283.	88.03	2.0526E+00
AG-110M	277.	657.76	7.8362E-02
SN-113	465.	391.69	9.8055E-02
TE-123m	980.	159.00	5.5741E-02
SB-124	110.	602.73	4.4357E-02
SB-125	524.	427.89	2.4298E-01
TE-125m	1288.	109.27	2.0220E+01
I-129	689.	39.60	0.0000E+00
I-131	459.	364.48	7.2802E-02
XE-131m	905.	163.93	2.3292E+00
BA-133	471.	356.02	9.4765E-02
CS-134	115.	604.70	4.5618E-02
CS-136	25.	818.51	2.6729E-02
CS-138	8.	1435.86	5.2919E-02
CE-139	912.	165.85	5.7670E-02
BA-140	204.	537.31	2.2011E-01
LA-140	5.	1596.21	2.2065E-02
CE-141	992.	145.44	9.5216E-02
CE-144	1120.	133.51	4.3844E-01
CEPR-144	1121.	133.51	8.7619E-01
EU-152	4.	1408.01	8.1343E-02
EU-154	17.	1274.51	9.3141E-02
EU-155	1305.	86.54	2.3475E-01
HF-181	402.	482.18	8.5547E-02
TA-182	1084.	67.75	3.2143E-01
HG-203	515.	279.20	6.2855E-02

WHC-SD-WM-DP-154, REV.0

Sample ID : S95T848-DUP Acquisition date : 3-JUN-1995 16:16:38

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	125.	569.70	4.5168E-02
TL-208	518.	277.36	8.0951E-01
PB-210	744.	46.50	0.0000E+00
BI-212	25.	727.18	3.6489E-01
PB-212	685.	238.63	1.2087E-01
BI-214	135.	609.31	1.0815E-01
PB-214	426.	351.92	2.7590E-01
RA-224	665.	240.99	1.3227E+00
RA-226	944.	186.10	1.4388E+00
AC-228	37.	911.21	1.3474E-01
TH-228	1303.	84.37	6.3703E+00
TH-229	1255.	88.47	2.9423E-01
U-232	894.	57.78	1.3995E+02
PA-233	478.	312.17	1.3887E-01
PA-234M	19.	1001.03	1.3922E+00
TH-234	1012.	63.29	3.7812E+00
U-235	945.	185.71	8.7468E-02
NP-237	1304.	86.48	6.2146E-01
U-237	906.	59.54	6.5829E-01
NP-238	17.	984.45	9.4112E-02
NP-239	1277.	106.12	2.5552E-01
PU-239	1105.	129.30	7.5715E+02
AM-241	906.	59.54	6.3144E-01
AM-243	1178.	74.67	1.6925E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room     3-JUN-1995 17:59:37.88                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T851-SAM
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3342.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:03.63 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        3-JUN-1995 17:08:54.32
Decayed to:               3-JUN-1995 17:08:54.32
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  DM
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
**********************************************************************************
```

Removed by:

D H Milicia

date: 6-3-95

Verified by:

R Machelor 6/5/95

WHC-SD-WM-DP-154, REV. 0

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	27.83*	861	3.10	56.24	51	14	19.1			
0	661.74*	19710	1.55	1323.66	1316	16	1.5		CS-137	22.3
0	1173.63	16	0.81	2347.53	2339	18	118.3			
0	1460.52*	18	2.18	2921.53	2914	17	141.1		K-40	0.311

Sample ID : S95T851-SAM Acquisition date : 3-JUN-1995 17:08:54

Total number of lines in spectrum	4	
Number of unidentified lines	1	
Number of lines tentatively identified by NID	3	75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.106E-01~~	~~3.106E-01~~	~~4.383E-01~~	~~141.13~~	~~BKG~~
CS-137	30.00Y	1.000	2.228E+01	2.228E+01	0.033E+01	1.46	
Total Activity :			2.259E+01	2.259E+01			
Grand Total Activity :			2.259E+01	2.259E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	664.	477.59	8.4910E-01
NA-22	12.	1274.53	2.7384E-02
NA-24	5.	1368.55	1.8935E-02
SC-46	24.	1120.55	3.4149E-02
CR-51	549.	320.08	5.8096E-01
MN-54	27.	834.83	2.8240E-02
CO-56	20.	846.76	2.4862E-02
CO-57	1122.	122.06	5.7958E-02
CO-58	13.	810.78	1.9581E-02
FE-59	18.	1099.25	5.2528E-02
CO-60	12.	1332.50	2.7654E-02
ZN-65	23.	1115.55	6.6547E-02
SE-75	684.	264.66	9.7135E-02
KR-85	378.	514.00	1.6188E+01
SR-85	377.	514.01	7.3141E-02
Y-88	3.	1836.06	1.8173E-02
Y-90	6.	1760.70	8.5467E-02
Y-91	12.	1204.67	8.8081E+00
NB-94	30.	871.09	3.1212E-02
NB-95	25.	765.78	2.5235E-02
ZR-95	25.	756.73	4.5683E-02
RU-103	424.	497.08	7.9634E-02
RURH-106	132.	621.93	9.8313E-01
AG-108m	28.	722.94	2.7980E-02
CD-109	1227.	88.03	2.0073E+00
AG-110M	347.	657.76	8.7759E-02
SN-113	579.	391.69	1.0936E-01
TE-123m	1021.	159.00	5.6902E-02
SB-124	154.	602.73	5.2520E-02
SB-125	648.	427.89	2.7012E-01
TE-125m	1215.	109.27	1.9640E+01
I-129	751.	39.60	0.0000E+00
I-131	605.	364.48	8.3631E-02
XE-131m	940.	163.93	2.3743E+00
BA-133	593.	356.02	1.0625E-01
CS-134	143.	604.70	5.0809E-02
CS-136	24.	818.51	2.6258E-02
CS-138	3.	1435.86	3.1957E-02
CE-139	998.	165.85	6.0304E-02
BA-140	268.	537.31	2.5190E-01
LA-140	9.	1596.21	2.9264E-02
CE-141	1046.	145.44	9.7754E-02
CE-144	1142.	133.51	4.4273E-01
CEPR-144	1142.	133.51	8.8467E-01
EU-152	13.	1408.01	1.4427E-01
EU-154	12.	1274.51	7.9297E-02
EU-155	1226.	86.54	2.2753E-01
HF-181	508.	482.18	9.6200E-02
TA-182	1041.	67.75	3.1493E-01
HG-203	663.	279.20	7.1321E-02
BI-207	174.	569.70	5.3123E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T851-SAM Acquisition date : 3-JUN-1995 17:08:54

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	644.	277.36	9.0269E-01
PB-210	728.	46.50	0.0000E+00
BI-212	40.	727.18	4.5955E-01
PB-212	872.	238.63	1.3642E-01
BI-214	147.	609.31	1.1313E-01
PB-214	607.	351.92	3.2953E-01
RA-224	821.	240.99	1.4691E+00
RA-226	1060.	186.10	1.5248E+00
AC-228	33.	911.21	1.2690E-01
TH-228	1239.	84.37	6.2128E+00
TH-229	1231.	88.47	2.9147E-01
U-232	888.	57.78	1.3948E+02
PA-233	612.	312.17	1.5716E-01
PA-234M	13.	1001.03	1.1654E+00
TH-234	1020.	63.29	3.7972E+00
U-235	1038.	185.71	9.1706E-02
NP-237	1226.	86.48	6.0270E-01
U-237	959.	59.54	6.7719E-01
NP-238	18.	984.45	9.6283E-02
NP-239	1264.	106.12	2.5417E-01
PU-239	1127.	129.30	7.6488E+02
AM-241	959.	59.54	6.4956E-01
AM-243	1183.	74.67	1.6962E-01

WHC-SD-WM-DP-154, REV. 0

****
* 222-S Laboratory Counting Room 3-JUN-1995 18:52:35.34 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T851-DUP
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D.H. Milicia
date: 6-3-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3343.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:03.61 sec

Verified by: Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 3-JUN-1995 18:01:53.87
Decayed to: 3-JUN-1995 18:01:53.87
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
10	26.79*	369	1.19	54.16	51	15	22.9	1.59E+01		
10	28.79*	240	1.31	58.17	51	15	43.2		I-129	0.000E+00
0	661.73*	19661	1.55	1323.63	1316	16	1.5		CS-137	22.2
0	911.23*	13	1.56	1822.64	1818	10	123.7			

Sample ID : S95T851-DUP Acquisition date : 3-JUN-1995 18:01:53

Total number of lines in spectrum 4
Number of unidentified lines 1
Number of lines tentatively identified by NID 3 75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	BKG
CS-137	30.00Y	1.000	2.222E+01	2.222E+01	0.032E+01	1.46	
	Total Activity :		2.222E+01	2.222E+01			
	Grand Total Activity :		2.222E+01	2.222E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : S95T851-DUP Acquisition date : 3-JUN-1995 18:01:53

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	693.	477.59	8.6694E-01
NA-22	23.	1274.53	3.7959E-02
NA-24	5.	1368.55	1.8602E-02
K-40	129.	1460.75	9.2913E-01
SC-46	23.	1120.55	3.3495E-02
CR-51	613.	320.08	6.1384E-01
MN-54	20.	834.83	2.4291E-02
CO-56	20.	846.76	2.4813E-02
CO-57	1152.	122.06	5.8728E-02
CO-58	21.	810.78	2.4432E-02
FE-59	15.	1099.25	4.8043E-02
CO-60	15.	1332.50	3.1982E-02
ZN-65	15.	1115.55	5.3944E-02
SE-75	657.	264.66	9.5193E-02
KR-85	376.	514.00	1.6159E+01
SR-85	376.	514.01	7.3053E-02
Y-88	4.	1836.06	2.0525E-02
Y-90	7.	1760.70	9.4697E-02
Y-91	9.	1204.67	7.6827E+00
NB-94	20.	871.09	2.5581E-02
NB-95	27.	765.78	2.6532E-02
ZR-95	22.	756.73	4.2786E-02
RU-103	433.	497.08	8.0498E-02
RURH-106	128.	621.93	9.7096E-01
AG-108m	35.	722.94	3.1369E-02
CD-109	1190.	88.03	1.9773E+00
AG-110M	348.	657.76	8.7826E-02
SN-113	609.	391.69	1.1223E-01
TE-123m	981.	159.00	5.5774E-02
SB-124	128.	602.73	4.7830E-02
SB-125	699.	427.89	2.8060E-01
TE-125m	1216.	109.27	1.9648E+01
I-131	580.	364.48	8.1839E-02
XE-131m	934.	163.93	2.3664E+00
BA-133	633.	356.02	1.0979E-01
CS-134	138.	604.70	5.0019E-02
CS-136	29.	818.51	2.8878E-02
CS-138	11.	1435.86	6.2339E-02
CE-139	950.	165.85	5.8837E-02
BA-140	277.	537.31	2.5612E-01
LA-140	2.	1596.21	1.3955E-02
CE-141	1025.	145.44	9.6779E-02
CE-144	1094.	133.51	4.3336E-01
CEPR-144	1094.	133.51	8.6597E-01
EU-152	5.	1408.01	9.0944E-02
EU-154	23.	1274.51	1.1028E-01
EU-155	1223.	86.54	2.2726E-01
HF-181	547.	482.18	9.9836E-02
TA-182	1021.	67.75	3.1184E-01
HG-203	686.	279.20	7.2557E-02
BI-207	158.	569.70	5.0722E-02

WHC-SD-WM-DP-154, REV.0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	686.	277.36	9.3210E-01
PB-210	769.	46.50	0.0000E+00
BI-212	35.	727.18	4.3126E-01
PB-212	849.	238.63	1.3460E-01
BI-214	146.	609.31	1.1281E-01
PB-214	623.	351.92	3.3377E-01
RA-224	800.	240.99	1.4503E+00
RA-226	1078.	186.10	1.5376E+00
AC-228	38.	911.21	1.3708E-01
TH-228	1168.	84.37	6.0313E+00
TH-229	1174.	88.47	2.8458E-01
U-232	839.	57.78	1.3558E+02
PA-233	620.	312.17	1.5810E-01
PA-234M	16.	1001.03	1.2932E+00
TH-234	939.	63.29	3.6434E+00
U-235	1070.	185.71	9.3087E-02
NP-237	1225.	86.48	6.0234E-01
U-237	848.	59.54	6.3689E-01
NP-238	23.	984.45	1.0947E-01
NP-239	1140.	106.12	2.4134E-01
PU-239	1102.	129.30	7.5624E+02
AM-241	848.	59.54	6.1090E-01
AM-243	1180.	74.67	1.6935E-01

LABCORE Data Entry Template for Worklist# 1619

Analyst: SMF **Instrument:** GEA00 3 **Book #** 121B52

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 5 mL sample. Re-run (2) due to contaminated blank. -PPB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments: STD: 1.0 ml

Contaminated blank is reproducible. No re-run requested. 10/16/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1619

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000760	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1619

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CS13702	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15402	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15502	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	AM24102	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1619

S Sutton 6-15-95
Analyst Signature **Date**

Bachelor for SL Holden 1/8/96
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		2.12E+01	2.12E-02	1.33			0.00E+00			
Work List	CS-137		2.46E+01	2.46E-02	1.51			0.00E+00			
1619				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
LIQUID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORLIST#1619				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUP # Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
SMF				0.00E+00				0.00E+00			
Date											
06/15/95											
Time	REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF										
01:45 PM											

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/16/95

Approved by: [signature] Date: 6/16/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.064 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	2.20E-02	1.07E-02				ERR			
Work List	CS-137		1.47E-01	7.16E-02	26			ERR			
1619	EU-154	<	6.88E-02	3.35E-02				ERR			
Test Code	EU-155	<	5.62E-02	2.74E-02				ERR			
@GEA-02	AM-241	<	1.56E-01	7.59E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T760				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
DUP's Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
SMF				0.00E+00				ERR			
Date											
06/15/95											
Time											
01:45 PM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/16/95

Approved by: [signature] Date: 6/16/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. (

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.054 < Enter SAMPLE g/L 2.0504 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	1.16E-02	5.63E-03			1.14E-02	5.66E-03	37.48	N/A	NA
Work List	CS-137		1.94E+01	9.45E+00	0.7		1.89E+01	9.19E+00	0.71	9.32E+00	2.8
1619	EU-154	<	4.83E-02	2.35E-02			1.04E-01	5.08E-02	36.19	N/A	NA
Test Code	EU-155	<	1.17E-01	5.67E-02		<	1.16E-01	5.67E-02		< 5.67E-02	NA
@GEA-02	AM-241	<	3.20E-01	1.56E-01		<	3.14E-01	1.53E-01		< 1.54E-01	NA
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
S95T760				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
SMF				0.00E+00				0.00E+00			
Date											
06/15/95											
Time											
01:45 PM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/16/95

Approved by: [signature] Date: 6/16/95

Form 548121_1 Rev. 2.3

~~949~~

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.1732 < Enter SAMPLE g/L 2.1128 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60		9.86E-03	4.54E-03	41.45	<	1.14E-02	5.40E-03			N/A	NA
Work List	CS-137		5.40E+01	2.49E+01	0.42		5.28E+01	2.50E+01	0.42		2.49E+01	0.4
1619	EU-154		1.03E-01	4.73E-02	40.48	<	4.44E-02	2.10E-02			N/A	NA
Test Code	EU-155	<	1.30E-01	6.00E-02		<	1.27E-01	6.02E-02		<	6.01E-02	NA
@GEA-02	AM-241	<	3.70E-01	1.70E-01		<	3.68E-01	1.74E-01		<	1.72E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S957763				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
SMF				0.00E+00				0.00E+00				
Date												
06/15/95												
Time												
01:45 PM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 06/16/95

Approved by: [signature] Date: 6/16/95

950

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 15-JUN-1995 16:23:26.68 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	WORKLIST1619-STD
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by:

date: 6-15-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA3
File Number:	dka300:[spec.GEA3]3g3447.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:09.94 sec

Verified by:

Bmachelor 6/16/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	15-JUN-1995 15:32:40.14
Decayed to:	15-JUN-1995 15:32:40.14
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	EMB
Background Subtract:	DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	563.47	496	1.23	1127.13	1123	10	23.6		CS-134	4.97
0	569.39	922	1.38	1138.98	1133	13	16.1		CS-134	5.06
0	604.91	5715	1.54	1210.01	1203	14	3.6		CS-134	5.23
0	661.85*	21735	1.57	1323.88	1317	16	1.5		CS-137	24.6
0	796.05	3858	1.68	1592.26	1586	12	4.3		CS-134	5.10
0	802.13	359	1.64	1604.43	1599	12	31.7		CS-134	4.67
0	1173.43	13402	1.88	2347.13	2339	17	1.9		CO-60	21.1
0	1332.69	12100	1.98	2665.76	2657	17	1.9		CO-60	21.2
0	1365.43	113	1.76	2731.26	2725	11	23.4			
0	1400.52	75	1.74	2801.47	2795	13	27.1			

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 951 TO 974.

Total number of lines in spectrum 10
Number of unidentified lines 2
Number of lines tentatively identified by NID 8 80.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.116E+01	2.116E+01	0.028E+01	1.33	
CS-134	2.06Y	1.000	5.160E+00	5.160E+00	0.140E+00	2.71	
CS-137	30.00Y	1.000	2.457E+01	2.457E+01	0.037E+01	1.51	
Total Activity :			**5.088E+01**	**5.088E+01**			
Grand Total Activity :			5.088E+01	5.088E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1414.	477.59	1.2389E+00
NA-22	68.	1274.53	6.4772E-02
NA-24	65.	1368.55	6.8416E-02
K-40	135.	1460.75	9.5183E-01
SC-46	505.	1120.55	1.5835E-01
CR-51	1367.	320.08	9.1674E-01
MN-54	623.	834.83	1.3643E-01
CO-56	638.	846.76	1.3986E-01
CO-57	1371.	122.06	6.4076E-02
CO-58	607.	810.78	1.3204E-01
FE-59	648.	1099.25	3.1221E-01
ZN-65	640.	1115.55	3.4999E-01
SE-75	1636.	264.66	1.5024E-01
KR-85	967.	514.00	2.5898E+01
SR-85	967.	514.01	1.1710E-01
Y-88	11.	1836.06	3.5550E-02
Y-90	22.	1760.70	1.6777E-01
Y-91	176.	1204.67	3.3078E+01
NB-94	664.	871.09	1.4622E-01
NB-95	558.	765.78	1.2016E-01
ZR-95	539.	756.73	2.1409E-01
RU-103	1046.	497.08	1.2513E-01
RURH-106	612.	621.93	2.1199E+00
AG-108m	528.	722.94	1.2226E-01
CD-109	1306.	88.03	2.0713E+00
AG-110M	797.	657.76	1.3302E-01
SN-113	1409.	391.69	1.7065E-01
TE-123m	1434.	159.00	6.7431E-02
SB-124	4009.	602.73	2.6797E-01
SB-125	1394.	427.89	3.9627E-01
TE-125m	1351.	109.27	2.0712E+01
I-129	1151.	39.60	0.0000E+00
I-131	1340.	364.48	1.2445E-01
XE-131m	1510.	163.93	3.0095E+00
BA-133	1326.	356.02	1.5891E-01
CS-136	597.	818.51	1.3180E-01
CS-138	23.	1435.86	8.9441E-02
CE-139	1517.	165.85	7.4370E-02
BA-140	819.	537.31	4.4056E-01
LA-140	23.	1596.21	4.7144E-02
CE-141	1552.	145.44	1.1910E-01
CE-144	1490.	133.51	5.0568E-01
CEPR-144	1490.	133.51	1.0105E+00
EU-152	37.	1408.01	2.4652E-01
EU-154	68.	1274.51	1.8818E-01
EU-155	1299.	86.54	2.3419E-01
HF-181	1166.	482.18	1.4572E-01
TA-182	1149.	67.75	3.3083E-01
HG-203	1524.	279.20	1.0812E-01
BI-207	1662.	569.70	1.6435E-01
TL-208	1401.	277.36	1.3318E+00

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	1148.	46.50	0.0000E+00
BI-212	523.	727.18	1.6700E+00
PB-212	1731.	238.63	1.9216E-01
BI-214	730.	609.31	2.5183E-01
PB-214	1419.	351.92	5.0430E-01
RA-224	1729.	240.99	2.1323E+00
RA-226	1768.	186.10	1.9688E+00
AC-228	807.	911.21	6.2914E-01
TH-228	1248.	84.37	6.2340E+00
TH-229	1306.	88.47	3.0019E-01
U-232	1121.	57.78	1.5673E+02
PA-233	1369.	312.17	2.3499E-01
PA-234M	681.	1001.03	8.3986E+00
TH-234	1165.	63.29	4.0578E+00
U-235	1743.	185.71	1.1880E-01
NP-237	1298.	86.48	6.2003E-01
U-237	1178.	59.54	7.5059E-01
NP-238	713.	984.45	6.0843E-01
NP-239	1328.	106.12	2.6057E-01
PU-239	1427.	129.30	8.6060E+02
AM-241	1178.	59.54	7.1997E-01
AM-243	1262.	74.67	1.7519E-01

****
* 222-S Laboratory Counting Room 15-JUN-1995 17:27:38.39 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID: WORKLIST-1619-BLK
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

date: 6-15-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3448.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.52 sec

Verified by:

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time: 15-JUN-1995 16:37:00.87
Decayed to: 15-JUN-1995 16:37:00.87
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20
****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw %Err	Fit	Nuclides	Activity uCi/LI
0	32.54	66	0.69	65.65	62	8 70.0			
0	609.59*	25	2.27	1219.36	1215	15111.9			
0	661.85*	130	1.23	1323.88	1318	11 26.0		CS-137	0.147
0	836.59	13	1.39	1673.34	1666	12132.0			

Total number of lines in spectrum 4
Number of unidentified lines 2
Number of lines tentatively identified by NID 2 50.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	1.471E-01	1.471E-01	0.382E-01	26.00	
Total Activity :			**1.471E-01**	**1.471E-01**			
Grand Total Activity :			1.471E-01	1.471E-01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	21.	477.59	1.5217E-01
NA-22	9.	1274.53	2.3771E-02
NA-24	9.	1368.55	2.6036E-02
K-40	145.	1460.75	9.8666E-01
SC-46	20.	1120.55	3.1723E-02
CR-51	62.	320.08	1.9454E-01
MN-54	24.	834.83	2.6816E-02
CO-56	13.	846.76	1.9788E-02
CO-57	78.	122.06	1.5306E-02
CO-58	**21.**	**810.78**	**2.4406E-02**
FE-59	10.	1099.25	3.7910E-02
CO-60	7.	1332.50	2.1989E-02
ZN-65	10.	1115.55	4.3605E-02
SE-75	66.	264.66	3.0215E-02
KR-85	51.	514.00	5.9200E+00
SR-85	50.	514.01	2.6753E-02
Y-88	2.	1836.06	1.4838E-02
Y-90	8.	1760.70	1.0147E-01
Y-91	12.	1204.67	8.6178E+00
NB-94	11.	871.09	1.9094E-02
NB-95	19.	765.78	2.2289E-02
ZR-95	12.	756.73	3.1302E-02
RU-103	33.	497.08	2.2192E-02
RURH-106	23.	621.93	4.1036E-01
AG-108m	24.	722.94	2.5979E-02
CD-109	63.	88.03	4.5380E-01
AG-110M	29.	657.76	2.5363E-02
SN-113	34.	391.69	2.6513E-02
TE-123m	83.	159.00	1.6264E-02
SB-124	33.	602.73	2.4348E-02
SB-125	42.	427.89	6.8431E-02
TE-125m	74.	109.27	4.8602E+00
I-129	**64.**	**39.60**	**0.0000E+00**
I-131	50.	364.48	2.4039E-02
XE-131m	80.	163.93	6.9251E-01
BA-133	42.	356.02	2.8146E-02
CS-134	28.	604.70	2.2396E-02
CS-136	24.	818.51	2.6432E-02
CS-138	9.	1435.86	5.4344E-02
CE-139	74.	165.85	1.6418E-02
BA-140	27.	537.31	7.9563E-02
LA-140	4.	1596.21	1.9735E-02
CE-141	81.	145.44	2.7194E-02
CE-144	74.	133.51	1.1256E-01
CEPR-144	74.	133.51	2.2483E-01
EU-152	7.	1408.01	1.0632E-01
EU-154	9.	1274.51	6.8760E-02
EU-155	75.	86.54	5.6243E-02
HF-181	30.	482.18	2.3209E-02
TA-182	62.	67.75	7.6748E-02
HG-203	65.	279.20	2.2405E-02

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	23.	569.70	1.9334E-02
TL-208	68.	277.36	2.9345E-01
PB-210	51.	46.50	0.0000E+00
BI-212	26.	727.18	3.7317E-01
PB-212	81.	238.63	4.1459E-02
BI-214	62.	609.31	7.3406E-02
PB-214	76.	351.92	1.1687E-01
RA-224	73.	240.99	4.3958E-01
RA-226	98.	186.10	4.6395E-01
AC-228	34.	911.21	1.2850E-01
TH-228	82.	84.37	1.5961E+00
TH-229	62.	88.47	6.5388E-02
U-232	54.	57.78	3.4513E+01
PA-233	59.	312.17	4.8749E-02
PA-234M	13.	1001.03	1.1632E+00
TH-234	63.	63.29	9.4634E-01
U-235	**99.**	**185.71**	**2.8279E-02**
NP-237	76.	86.48	1.5037E-01
U-237	55.	59.54	1.6250E-01
NP-238	18.	984.45	9.7861E-02
NP-239	73.	106.12	6.1066E-02
PU-239	84.	129.30	2.0873E+02
AM-241	55.	59.54	1.5586E-01
AM-243	88.	74.67	4.6240E-02

[redacted]

****

* 222-S Laboratory Counting Room 15-JUN-1995 20:13:39.48 *

****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T760-SAM
Sample Size: 5.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: [signature]

date: 6-15-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3449.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:17.33 sec

Verified by: [signature] 6/16/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 15-JUN-1995 19:22:41.60
Decayed to: 15-JUN-1995 19:22:41.60
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.87*	85862	1.55	1323.91	1315	18	0.7		CS-137	19.4
0	724.20	98	2.05	1448.58	1443	13	53.1			
0	996.62	36	0.69	1993.43	1985	15	94.6			
0	1004.90	67	2.11	2010.00	2005	11	36.5			
0	1173.79	56	1.60	2347.84	2343	11	40.2			
0	1274.70	109	1.92	2549.73	2544	15	22.1		NA-22	3.663E-02
0	1460.93*	29	1.98	2922.34	2913	20	102.9		K-40	0.103

WHC-SD-WM-DP-154, REV. 0

Total number of lines in spectrum 7
Number of unidentified lines 0
Number of lines tentatively identified by NID 7 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~3.663E-02~~	~~3.663E-02~~	~~0.811E-02~~	~~22.13~~	ISY Eu
~~K-40~~	~~1.28E+09Y~~	1.000	1.030E-01	1.030E-01	~~1.061E-01~~	~~102.95~~	BKG
CS-137	30.00Y	1.000	1.941E+01	1.941E+01	0.014E+01	0.70	
	Total Activity :		1.955E+01	1.955E+01			
	Grand Total Activity :		1.955E+01	1.955E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Minimum Detectable Activity Report
Sample ID : S95T760-SAM

Acquisition date : 15-JUN-1995 19:22:41

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2869.	477.59	3.5291E-01
NA-24	17.	1368.55	7.0438E-03
SC-46	45.	1120.55	9.4714E-03
CR-51	2652.	320.08	2.5535E-01
MN-54	60.	834.83	8.4387E-03
CO-56	68.	846.76	9.1660E-03
CO-57	7467.	122.06	2.9910E-02
CO-58	80.	810.78	9.6003E-03
FE-59	36.	1099.25	1.4709E-02
CO-60	50.	1332.50	1.1560E-02
ZN-65	24.	1115.55	1.3518E-02
SE-75	3330.	264.66	4.2867E-02
KR-85	1580.	514.00	6.6231E+00
SR-85	1580.	514.01	2.9940E-02
Y-88	3.	1836.06	3.6069E-03
Y-90	7.	1760.70	1.8868E-02
Y-91	20.	1204.67	2.2296E+00
NB-94	93.	871.09	1.0924E-02
NB-95	95.	765.78	9.9198E-03
ZR-95	114.	756.73	1.9703E-02
RU-103	1826.	497.08	3.3059E-02
RURH-106	542.	621.93	3.9892E-01
AG-108m	192.	722.94	1.4741E-02
CD-109	8034.	88.03	1.0273E+00
AG-110M	1187.	657.76	3.2465E-02
SN-113	2622.	391.69	4.6558E-02
TE-123m	5655.	159.00	2.6778E-02
SB-124	630.	602.73	2.1251E-02
SB-125	2960.	427.89	1.1548E-01
TE-125m	7529.	109.27	9.7786E+00
I-129	4260.	39.60	0.0000E+00
I-131	2581.	364.48	3.4536E-02
XE-131m	5349.	163.93	1.1327E+00
BA-133	2612.	356.02	4.4612E-02
CS-134	648.	604.70	2.1645E-02
CS-136	65.	818.51	8.6927E-03
CS-138	6.	1435.86	9.2275E-03
CE-139	5300.	165.85	2.7800E-02
BA-140	1117.	537.31	1.0288E-01
LA-140	9.	1596.21	5.7760E-03
CE-141	6120.	145.44	4.7296E-02
CE-144	6717.	133.51	2.1473E-01
CEPR-144	6717.	133.51	4.2905E-01
EU-152	20.	1408.01	3.6226E-02
EU-154	112.	1274.51	4.8287E-02
EU-155	8039.	86.54	1.1653E-01
HF-181	2273.	482.18	4.0698E-02
TA-182	6670.	67.75	1.5943E-01
HG-203	3097.	279.20	3.0829E-02
BI-207	718.	569.70	2.1613E-02
TL-208	3073.	277.36	3.9449E-01

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	4319.	46.50	0.0000E+00
BI-212	109.	727.18	1.5238E-01
PB-212	4005.	238.63	5.8467E-02
BI-214	627.	609.31	4.6687E-02
PB-214	2637.	351.92	1.3767E-01
RA-224	3805.	240.99	6.3274E-01
RA-226	5490.	186.10	6.9387E-01
AC-228	69.	911.21	3.6848E-02
TH-228	7896.	84.37	3.1365E+00
TH-229	7995.	88.47	1.4853E-01
U-232	5369.	57.78	6.8598E+01
PA-233	2778.	312.17	6.6950E-02
PA-234M	41.	1001.03	4.1418E-01
TH-234	6315.	63.29	1.8893E+00
U-235	5453.	185.71	4.2029E-02
NP-237	8040.	86.48	3.0865E-01
U-237	5802.	59.54	3.3318E-01
NP-238	38.	984.45	2.8190E-02
NP-239	7996.	106.12	1.2787E-01
PU-239	6851.	129.30	3.7711E+02
AM-241	5802.	59.54	3.1958E-01
AM-243	7414.	74.67	8.4906E-02

****
* 222-S Laboratory Counting Room 15-JUN-1995 18:39:15.10 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T760-DUP
Sample Size: 5.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

date: 6-15-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3450.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:16.84 sec

Verified by:

6/16/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 15-JUN-1995 17:48:20.95
Decayed to: 15-JUN-1995 17:48:20.95
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	123.06	461	1.40	246.60	244	6	55.6		~~CO-57~~	3.431E-02
									EU-154	7.271E-02
0	661.85*	83379	1.56	1323.88	1316	17	0.7		CS-137	18.8
0	723.78	110	1.38	1447.72	1443	13	43.1		EU-154	0.115
0	829.11	73	6.17	1658.39	1645	26	92.1			
0	1004.83	58	1.92	2009.86	2002	15	65.1		EU-154	8.986E-02
0	1173.68	25	1.97	2347.62	2343	10	73.5		CO-60	7.995E-03
0	1275.02	100	1.50	2550.38	2545	14	25.5		EU-154	9.776E-02
									~~NA-22~~	3.365E-02
0	1333.09	44	2.61	2666.55	2661	15	40.9		CO-60	1.523E-02

Summary of Nuclide Activity
Sample ID : S95T760-DUP

Acquisition date : 15-JUN-1995 17:48:20

Total number of lines in spectrum	8	
Number of unidentified lines	1	
Number of lines tentatively identified by NID	7	87.50%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~3.365E-02~~	~~3.365E-02~~	~~0.857E-02~~	~~25.46~~	
~~CO-57~~	271.80D	1.000	3.431E-02	3.431E-02	~~1.907E-02~~	~~55.59~~	154 Eu
CO-60	5.27Y	1.000	1.140E-02	1.140E-02	0.427E-02	37.48	
CS-137	30.00Y	1.000	1.885E+01	1.885E+01	0.013E+01	0.71	
EU-154	8.59Y	1.000	1.043E-01	1.043E-01	0.377E-01	36.19	
	Total Activity :		1.903E+01	1.903E+01			
Grand Total Activity :			1.903E+01	1.903E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2782.	477.59	3.4755E-01
NA-24	11.	1368.55	5.6175E-03
K-40	153.	1460.75	2.0273E-01
SC-46	37.	1120.55	8.5923E-03
CR-51	2621.	320.08	2.5383E-01
MN-54	83.	834.83	9.9627E-03
CO-56	73.	846.76	9.4730E-03
CO-58	63.	810.78	8.5161E-03
FE-59	25.	1099.25	1.2140E-02
ZN-65	30.	1115.55	1.5088E-02
SE-75	3219.	264.66	4.2143E-02
KR-85	1531.	514.00	6.5195E+00
SR-85	1531.	514.01	2.9481E-02
Y-88	4.	1836.06	4.1849E-03
Y-90	5.	1760.70	1.5885E-02
Y-91	24.	1204.67	2.4689E+00
NB-94	83.	871.09	1.0352E-02
NB-95	91.	765.78	9.7174E-03
ZR-95	117.	756.73	1.9918E-02
RU-103	1724.	497.08	3.2128E-02
RURH-106	568.	621.93	4.0844E-01
AG-108m	187.	722.94	1.4559E-02
CD-109	7852.	88.03	1.0156E+00
AG-110M	1156.	657.76	3.2036E-02
SN-113	2590.	391.69	4.6270E-02
TE-123m	5452.	159.00	2.6292E-02
SB-124	581.	602.73	2.0410E-02
SB-125	2953.	427.89	1.1535E-01
TE-125m	7500.	109.27	9.7591E+00
I-129	4221.	39.60	0.0000E+00
I-131	2553.	364.48	3.4353E-02
XE-131m	5255.	163.93	1.1227E+00
BA-133	2472.	356.02	4.3404E-02
CS-134	578.	604.70	2.0441E-02
CS-136	71.	818.51	9.0789E-03
CS-138	9.	1435.86	1.0839E-02
CE-139	5166.	165.85	2.7446E-02
BA-140	1096.	537.31	1.0190E-01
LA-140	4.	1596.21	3.7264E-03
CE-141	5904.	145.44	4.6457E-02
CE-144	6661.	133.51	2.1383E-01
CEPR-144	6661.	133.51	4.2726E-01
EU-152	20.	1408.01	3.6148E-02
EU-155	8015.	86.54	1.1634E-01
HF-181	2303.	482.18	4.0965E-02
TA-182	6424.	67.75	1.5646E-01
HG-203	2998.	279.20	3.0331E-02
BI-207	689.	569.70	2.1169E-02
TL-208	2980.	277.36	3.8846E-01
PB-210	4217.	46.50	0.0000E+00
BI-212	96.	727.18	1.4343E-01

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-212	3835.	238.63	5.7208E-02
BI-214	588.	609.31	4.5204E-02
PB-214	2549.	351.92	1.3535E-01
RA-224	3872.	240.99	6.3827E-01
RA-226	5320.	186.10	6.8304E-01
AC-228	78.	911.21	3.9026E-02
TH-228	7721.	84.37	3.1016E+00
TH-229	7724.	88.47	1.4599E-01
U-232	5330.	57.78	6.8347E+01
PA-233	2656.	312.17	6.5463E-02
PA-234M	53.	1001.03	4.6944E-01
TH-234	5793.	63.29	1.8095E+00
U-235	5271.	185.71	4.1320E-02
NP-237	8012.	86.48	3.0813E-01
U-237	5591.	59.54	3.2706E-01
NP-238	43.	984.45	3.0002E-02
NP-239	7701.	106.12	1.2549E-01
PU-239	6838.	129.30	3.7673E+02
AM-241	5591.	59.54	3.1371E-01
AM-243	7096.	74.67	8.3065E-02

****
* 222-S Laboratory Counting Room 15-JUN-1995 21:15:24.59 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	S95T763-SAM
Sample Size:	5.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: [signature]

date: 6-15-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA3
File Number:	dka300:[spec.GEA3]3g3451.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:34.63 sec

Verified by: [signature] 6/16/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	15-JUN-1995 20:24:11.69
Decayed to:	15-JUN-1995 20:24:11.69
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	ALJ
Background Subtract:	DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	122.96	548	1.53	246.40	244	7	62.5		~~CO-57~~	4.078E-02
									EU-154	8.643E-02
0	661.87*	239058	1.57	1323.91	1315	18	0.4		CS-137	54.0
0	723.10	96	1.12	1446.37	1441	12	58.9		EU-154	9.926E-02
0	763.05	91	5.34	1526.27	1519	18	66.0			
0	1005.32	69	2.16	2010.83	2003	16	55.7		EU-154	0.106
0	1172.96	46	1.57	2346.19	2341	13	56.3		CO-60	1.461E-02
0	1274.77	88	1.83	2549.88	2540	20	34.9		EU-154	8.649E-02
									~~NA-22~~	2.977E-02
0	1332.63	24	1.27	2665.63	2662	9	56.7		CO-60	8.302E-03
0	1345.57	17	0.73	2691.53	2684	13	48.5			

Summary of Nuclide Activity
Sample ID : S95T763-SAM

Acquisition date : 15-JUN-1995 20:24:11

Total number of lines in spectrum 9
Number of unidentified lines 2
Number of lines tentatively identified by NID 7 77.78%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~2.977E-02~~	~~2.977E-02~~	~~1.039E-02~~	~~34.92~~	
~~CO-57~~	~~271.80D~~	~~1.000~~	~~4.078E-02~~	~~4.078E-02~~	~~2.548E-02~~	~~62.48~~	~~154Eu~~
CO-60	5.27Y	1.000	9.856E-03	9.856E-03	4.085E-03	41.45	
CS-137	30.00Y	1.000	5.404E+01	5.404E+01	0.023E+01	0.42	
EU-154	8.59Y	1.000	1.027E-01	1.027E-01	0.416E-01	40.48	
	Total Activity :		5.422E+01	5.422E+01			
	Grand Total Activity :		5.422E+01	5.422E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	7573.	477.59	5.7339E-01
NA-24	13.	1368.55	6.0213E-03
K-40	162.	1460.75	2.0822E-01
SC-46	53.	1120.55	1.0233E-02
CR-51	6195.	320.08	3.9027E-01
MN-54	79.	834.83	9.7425E-03
CO-56	97.	846.76	1.0883E-02
CO-58	112.	810.78	1.1349E-02
FE-59	23.	1099.25	1.1671E-02
ZN-65	41.	1115.55	1.7754E-02
SE-75	7240.	264.66	6.3206E-02
KR-85	3704.	514.00	1.0140E+01
SR-85	3703.	514.01	4.5842E-02
Y-88	2.	1836.06	2.9676E-03
Y-90	11.	1760.70	2.3562E-02
Y-91	27.	1204.67	2.6008E+00
NB-94	104.	871.09	1.1575E-02
NB-95	118.	765.78	1.1059E-02
ZR-95	132.	756.73	2.1181E-02
RU-103	4546.	497.08	5.2165E-02
RURH-106	1304.	621.93	6.1894E-01
AG-108m	231.	722.94	1.6181E-02
CD-109	9956.	88.03	1.1436E+00
AG-110M	3198.	657.76	5.3280E-02
SN-113	6684.	391.69	7.4337E-02
TE-123m	8564.	159.00	3.2954E-02
SB-124	1417.	602.73	3.1866E-02
SB-125	7524.	427.89	1.8412E-01
TE-125m	9715.	109.27	1.1107E+01
I-129	6834.	39.60	0.0000E+00
I-131	6114.	364.48	5.3160E-02
XE-131m	8608.	163.93	1.4369E+00
BA-133	6255.	356.02	6.9038E-02
CS-134	1368.	604.70	3.1450E-02
CS-136	88.	818.51	1.0106E-02
CS-138	4.	1435.86	7.2470E-03
CE-139	8587.	165.85	3.5385E-02
BA-140	2694.	537.31	1.5978E-01
LA-140	9.	1596.21	5.9963E-03
CE-141	9149.	145.44	5.7830E-02
CE-144	9523.	133.51	2.5567E-01
CEPR-144	9523.	133.51	5.1088E-01
EU-152	18.	1408.01	3.4511E-02
EU-155	10067.	86.54	1.3039E-01
HF-181	5978.	482.18	6.6004E-02
TA-182	8469.	67.75	1.7966E-01
HG-203	6742.	279.20	4.5484E-02
BI-207	1556.	569.70	3.1811E-02
TL-208	6826.	277.36	5.8792E-01
PB-210	6629.	46.50	0.0000E+00
BI-212	168.	727.18	1.8914E-01

Sample ID : S95T763-SAM Acquisition date : 15-JUN-1995 20:24:11

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-212	8107.	238.63	8.3183E-02
BI-214	1427.	609.31	7.0452E-02
PB-214	6014.	351.92	2.0852E-01
RA-224	8019.	240.99	9.1855E-01
RA-226	9987.	186.10	9.3583E-01
AC-228	70.	911.21	3.7050E-02
TH-228	9810.	84.37	3.4961E+00
TH-229	9897.	88.47	1.6526E-01
U-232	7518.	57.78	8.1175E+01
PA-233	6136.	312.17	9.9501E-02
PA-234M	53.	1001.03	4.7086E-01
TH-234	8120.	63.29	2.1424E+00
U-235	9897.	185.71	5.6623E-02
NP-237	10082.	86.48	3.4565E-01
U-237	7777.	59.54	3.8575E-01
NP-238	42.	984.45	2.9678E-02
NP-239	9916.	106.12	1.4239E-01
PU-239	9460.	129.30	4.4311E+02
AM-241	7777.	59.54	3.7000E-01
AM-243	9242.	74.67	9.4799E-02

****
* 222-S Laboratory Counting Room 15-JUN-1995 23:24:47.23 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T763-DUP
Sample Size: 5.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

date: 6-15-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3452.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:33.85 sec

Verified by:

6/16/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 15-JUN-1995 22:33:35.60
Decayed to: 15-JUN-1995 22:33:35.60
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.88*	233369	1.55	1323.94	1315	18	0.4		CS-137	52.8
0	723.99	73	1.57	1448.16	1444	9	59.2			
0	1174.00	45	2.56	2348.27	2341	19	72.1			
0	1237.50*	22	1.08	2475.30	2470	14	87.6			
0	1274.92	82	1.48	2550.18	2546	13	30.1		NA-22	2.761E-02

Total number of lines in spectrum 5
Number of unidentified lines 0
Number of lines tentatively identified by NID 5 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	2.761E-02	2.761E-02	~~0.832E-02~~	~~30.13~~	ISVEM
CS-137	30.00Y	1.000	5.275E+01	5.275E+01	0.022E+01	0.42	
	Total Activity :		5.278E+01	5.278E+01			
Grand Total Activity :			5.278E+01	5.278E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	7325.	477.59	5.6392E-01
NA-24	14.	1368.55	6.2568E-03
K-40	139.	1460.75	1.9326E-01
SC-46	44.	1120.55	9.3900E-03
CR-51	5965.	320.08	3.8295E-01
MN-54	88.	834.83	1.0232E-02
CO-56	86.	846.76	1.0275E-02
CO-57	9808.	122.06	3.4279E-02
CO-58	105.	810.78	1.0989E-02
FE-59	38.	1099.25	1.5100E-02
CO-60	49.	1332.50	1.1405E-02
ZN-65	39.	1115.55	1.7302E-02
SE-75	6960.	264.66	6.1970E-02
KR-85	3625.	514.00	1.0031E+01
SR-85	3624.	514.01	4.5353E-02
Y-88	2.	1836.06	2.9507E-03
Y-90	6.	1760.70	1.7480E-02
Y-91	28.	1204.67	2.6644E+00
NB-94	111.	871.09	1.1961E-02
NB-95	124.	765.78	1.1352E-02
ZR-95	132.	756.73	2.1166E-02
RU-103	4395.	497.08	5.1289E-02
RURH-106	1276.	621.93	6.1225E-01
AG-108m	207.	722.94	1.5305E-02
CD-109	9722.	88.03	1.1301E+00
AG-110M	2965.	657.76	5.1305E-02
SN-113	6332.	391.69	7.2355E-02
TE-123m	8418.	159.00	3.2671E-02
SB-124	1326.	602.73	3.0828E-02
SB-125	7363.	427.89	1.8215E-01
TE-125m	9623.	109.27	1.1055E+01
I-129	6652.	39.60	0.0000E+00
I-131	6105.	364.48	5.3122E-02
XE-131m	8393.	163.93	1.4189E+00
BA-133	5886.	356.02	6.6971E-02
CS-134	1304.	604.70	3.0713E-02
CS-136	76.	818.51	9.4242E-03
CS-138	6.	1435.86	9.2500E-03
CE-139	8364.	165.85	3.4922E-02
BA-140	2669.	537.31	1.5904E-01
LA-140	10.	1596.21	6.2818E-03
CE-141	8904.	145.44	5.7051E-02
CE-144	9276.	133.51	2.5233E-01
CEPR-144	9277.	133.51	5.0422E-01
EU-152	13.	1408.01	2.9044E-02
EU-154	95.	1274.51	4.4400E-02
EU-155	9581.	86.54	1.2720E-01
HF-181	5808.	482.18	6.5058E-02
TA-182	8305.	67.75	1.7791E-01
HG-203	6401.	279.20	4.4317E-02
BI-207	1604.	569.70	3.2299E-02

Sample ID : S95T763-DUP Acquisition date : 15-JUN-1995 22:33:35

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	6547.	277.36	5.7577E-01
PB-210	6453.	46.50	0.0000E+00
BI-212	149.	727.18	1.7838E-01
PB-212	7842.	238.63	8.1813E-02
BI-214	1351.	609.31	6.8533E-02
PB-214	5990.	351.92	2.0808E-01
RA-224	7645.	240.99	8.9691E-01
RA-226	9828.	186.10	9.2836E-01
AC-228	79.	911.21	3.9495E-02
TH-228	9495.	84.37	3.4395E+00
TH-229	**9585.**	**88.47**	**1.6263E-01**
U-232	**7411.**	**57.78**	**8.0594E+01**
PA-233	6048.	312.17	9.8781E-02
PA-234M	44.	1001.03	4.3031E-01
TH-234	7932.	63.29	2.1174E+00
U-235	9737.	185.71	5.6161E-02
NP-237	9592.	86.48	3.3714E-01
U-237	7696.	59.54	3.8372E-01
NP-238	**61.**	**984.45**	**3.5593E-02**
NP-239	**9709.**	**106.12**	**1.4090E-01**
PU-239	9346.	129.30	4.4043E+02
AM-241	7696.	59.54	3.6805E-01
AM-243	8974.	74.67	9.3413E-02

LABCORE Data Entry Template for Worklist# 1991

Analyst: KGH **Instrument:** GEA00 3 **Book #** 136B52

Method: LA-548-121 Rev/Mod 0-1 WHC-SD-WM-DP-154, REV. 0

Worklist Comment: GEA BX109; use 1 mL sample. R(0). -PPB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T001329	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1991

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T001329	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T001329	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1991

Analyst Signature Date 8-14-95

Analyst Signature Date 8·15·95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		3.38E+01	3.38E-02	1.05			0.00E+00			
Work List	CS-137		2.48E+01	2.48E-02	1.52			0.00E+00			
1991				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
LIQUID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1991				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
KGH				0.00E+00				0.00E+00			
Date											
08/14/95											
Time											
07:30 PM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: Sharon K Hall Date: 08/15/95

Approved by: B J MacHelon Date: 8/15/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.214 < Enter SAMPLE g/L [ ] < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	2.33E-02	1.05E-02				ERR			
Work List	CS-137	<	4.54E-02	2.05E-02				ERR			
1991	EU-154	<	7.19E-02	3.25E-02				ERR			
Test Code	EU-155	<	5.30E-02	2.39E-02				ERR			
@GEA-02	AM-241	<	1.65E-01	7.44E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T1329				0.00E+00				ERR			
				0.00E+00				ERR			
Depth DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Dilute Repeat DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
KGH				0.00E+00				ERR			
Date											
08/14/95											
Time											
07:30 PM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

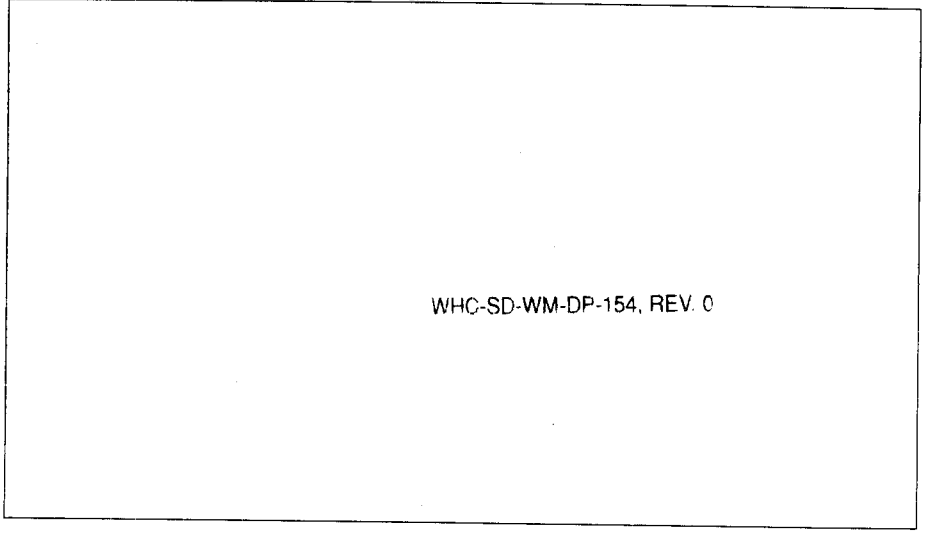
AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: Lyon L Hall Date: 08/15/95

Approved by: D Bachelor Date: 8/15/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER



PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.214 < Enter SAMPLE g/L 2.2676 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	2.88E-02	1.30E-02		<	3.10E-02	1.37E-02		<	1.34E-02	NA
Work List	CS-137		3.13E+01	1.41E+01	1.23		3.27E+01	1.44E+01	1.2		1.43E+01	1.8
1991	EU-154	<	1.12E-01	5.05E-02		<	1.02E-01	4.48E-02		<	4.76E-02	NA
Test Code	EU-155	<	2.61E-01	1.18E-01		<	2.66E-01	1.17E-01		<	1.18E-01	NA
gGEA-02	AM-241	<	7.28E-01	3.29E-01		<	7.56E-01	3.34E-01		<	3.31E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T1329				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
KGH				0.00E+00				0.00E+00				
Date												
08/14/95												
Time												
07:30 PM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: [signature] Date: 08/15/95

Approved by: [signature] Date: 8/15/95

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 14-AUG-1995 23:43:34.10 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST#1991-ST
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00

Removed by:

date: 8-14-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3902.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:11.61 sec

Verified by:

8/15/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 14-AUG-1995 22:52:47.11
Decayed to: 14-AUG-1995 22:52:47.11
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.55*	21922	1.55	1323.28	1317	15	1.5		CS-137	24.8
0	1172.96	21197	1.84	2346.19	2338	17	1.5		CO-60	33.4
0	1332.20	19493	1.97	2664.77	2655	19	1.5		CO-60	34.1

Sample ID : WORKLIST#1991-ST Acquisition date : 14-AUG-1995 22:52:47

Total number of lines in spectrum 3
Number of unidentified lines 0
Number of lines tentatively identified by NID 3 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	3.377E+01	3.377E+01	0.035E+01	1.05	
CS-137	30.00Y	1.000	2.478E+01	2.478E+01	0.038E+01	1.52	
	Total Activity :		5.855E+01	5.855E+01			
	Grand Total Activity :		5.855E+01	5.855E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1385.	477.59	1.2259E+00
NA-22	121.	1274.53	8.6245E-02
NA-24	41.	1368.55	5.4293E-02
K-40	171.	1460.75	1.0709E+00
SC-46	736.	1120.55	1.9108E-01
CR-51	1377.	320.08	9.2002E-01
MN-54	1046.	834.83	1.7683E-01
CO-56	1043.	846.76	1.7885E-01
CO-57	1436.	122.06	6.5589E-02
CO-58	880.	810.78	1.5900E-01
FE-59	970.	1099.25	3.8190E-01
ZN-65	911.	1115.55	4.1757E-01
SE-75	1669.	264.66	1.5175E-01
KR-85	993.	514.00	2.6252E+01
SR-85	993.	514.01	1.1870E-01
Y-88	25.	1836.06	5.2047E-02
Y-90	22.	1760.70	1.6772E-01
Y-91	269.	1204.67	4.0960E+01
NB-94	1048.	871.09	1.8366E-01
NB-95	869.	765.78	1.5004E-01
ZR-95	854.	756.73	2.6943E-01
RU-103	1124.	497.08	1.2970E-01
RURH-106	847.	621.93	2.4941E+00
AG-108m	764.	722.94	1.4713E-01
CD-109	1293.	88.03	2.0603E+00
AG-110M	1185.	657.76	1.6217E-01
SN-113	1301.	391.69	1.6397E-01
TE-123m	1548.	159.00	7.0046E-02
SB-124	811.	602.73	1.2050E-01
SB-125	1378.	427.89	3.9400E-01
TE-125m	1400.	109.27	2.1084E+01
I-129	1304.	39.60	0.0000E+00
I-131	1292.	364.48	1.2217E-01
XE-131m	1528.	163.93	3.0270E+00
BA-133	1303.	356.02	1.5754E-01
CS-134	771.	604.70	1.1803E-01
CS-136	987.	818.51	1.6947E-01
CS-138	31.	1435.86	1.0332E-01
CE-139	1531.	165.85	7.4698E-02
BA-140	913.	537.31	4.6501E-01
LA-140	25.	1596.21	4.8909E-02
CE-141	1533.	145.44	1.1834E-01
CE-144	1518.	133.51	5.1030E-01
CEPR-144	1518.	133.51	1.0197E+00
EU-152	39.	1408.01	2.5559E-01
EU-154	121.	1274.51	2.5090E-01
EU-155	1311.	86.54	2.3526E-01
HF-181	1231.	482.18	1.4978E-01
TA-182	1197.	67.75	3.3771E-01
HG-203	1550.	279.20	1.0905E-01
BI-207	882.	569.70	1.1974E-01

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	1607.	277.36	1.4261E+00
PB-210	1237.	46.50	0.0000E+00
BI-212	801.	727.18	2.0673E+00
PB-212	1789.	238.63	1.9540E-01
BI-214	817.	609.31	2.6647E-01
PB-214	1324.	351.92	4.8731E-01
RA-224	1826.	240.99	2.1917E+00
RA-226	1690.	186.10	1.9250E+00
AC-228	1215.	911.21	7.7223E-01
TH-228	1323.	84.37	6.4204E+00
TH-229	1311.	88.47	3.0070E-01
U-232	1256.	57.78	1.6588E+02
PA-233	1444.	312.17	2.4131E-01
PA-234M	994.	1001.03	3.4146E-01
TH-234	1209.	63.29	4.1339E+00
U-235	1666.	185.71	1.1614E-01
NP-237	1312.	86.48	6.2348E-01
U-237	1255.	59.54	7.7473E-01
NP-238	1069.	984.45	7.4488E-01
NP-239	1420.	106.12	2.6945E-01
PU-239	1469.	129.30	8.7322E+02
AM-241	1255.	59.54	7.4309E-01
AM-243	1257.	74.67	1.7478E-01

```
**********************************************************************************
* 222-S Laboratory Counting Room    15-AUG-1995 01:03:19.96                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:              WRKLST#1991-BLNK
Sample Size:            1.00000E-03 LI
Dilution Factor:        1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:            GEA3
File Number:            dka300:[spec.GEA3]3g3903.cnf
Geometry:               42
Description:
Count Time:             0 00:50:00.00 sec
Real Time:              0 00:50:00.49 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:      15-AUG-1995 00:12:43.44
Decayed to:             15-AUG-1995 00:12:43.44
Standard Deviations:    2
Analysis Library:       ENVGEA
Analyst:                MB
Background Subtract:    DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
**********************************************************************************
```

Removed by:

date: 8-15-95

Verified by:

8/15/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	352.06*	35	1.27	704.42	698	11	89.9	1.98E+00		
0	661.43*	40	1.50	1323.03	1317	14	73.0		CS-137	4.536E-02
3	1008.82	18	2.35	2017.83	2010	44	56.3	1.55E+00		
3	1011.90	19	1.77	2024.00	2010	44	46.7			

Summary of Nuclide Activity
Sample ID : WRKLST#1991-BLNK

Acquisition date : 15-AUG-1995 00:12:43

Total number of lines in spectrum 4
Number of unidentified lines 1
Number of lines tentatively identified by NID 3 75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~CS-137~~	~~30.00Y~~	~~1.000~~	~~4.536E-02~~	~~4.536E-02~~	~~3.312E-02~~	~~73.02~~	~~BKG~~
Total Activity :			4.536E-02	4.536E-02			
Grand Total Activity :			4.536E-02	4.536E-02			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : WRKLST#1991-BLNK Acquisition date : 15-AUG-1995 00:12:43

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	30.	477.59	1.8089E-01
NA-22	10.	1274.53	2.4788E-02
NA-24	9.	1368.55	2.5145E-02
K-40	140.	1460.75	9.6984E-01
SC-46	20.	1120.55	3.1460E-02
CR-51	53.	320.08	1.8021E-01
MN-54	13.	834.83	1.9743E-02
CO-56	13.	846.76	2.0204E-02
CO-57	83.	122.06	1.5754E-02
CO-58	19.	810.78	2.3107E-02
FE-59	10.	1099.25	3.8142E-02
CO-60	8.	1332.50	2.3300E-02
ZN-65	12.	1115.55	4.7056E-02
SE-75	64.	264.66	2.9668E-02
KR-85	42.	514.00	5.3762E+00
SR-85	42.	514.01	2.4270E-02
Y-88	2.	1836.06	1.4838E-02
Y-90	5.	1760.70	7.9851E-02
Y-91	19.	1204.67	1.0847E+01
NB-94	12.	871.09	1.9975E-02
NB-95	15.	765.78	1.9655E-02
ZR-95	11.	756.73	3.0261E-02
RU-103	45.	497.08	2.6032E-02
RURH-106	17.	621.93	3.5509E-01
AG-108m	18.	722.94	2.2806E-02
CD-109	60.	88.03	4.4410E-01
AG-110M	22.	657.76	2.2282E-02
SN-113	34.	391.69	2.6575E-02
TE-123m	72.	159.00	1.5075E-02
SB-124	19.	602.73	1.8417E-02
SB-125	38.	427.89	6.5028E-02
TE-125m	72.	109.27	4.7793E+00
I-129	56.	39.60	0.0000E+00
I-131	39.	364.48	2.1193E-02
XE-131m	81.	163.93	6.9704E-01
BA-133	48.	356.02	3.0226E-02
CS-134	26.	604.70	2.1646E-02
CS-136	15.	818.51	2.0662E-02
CS-138	10.	1435.86	5.8979E-02
CE-139	81.	165.85	1.7169E-02
BA-140	30.	537.31	8.3607E-02
LA-140	4.	1596.21	2.0295E-02
CE-141	79.	145.44	2.6886E-02
CE-144	66.	133.51	1.0667E-01
CEPR-144	66.	133.51	2.1319E-01
EU-152	10.	1408.01	1.2806E-01
EU-154	10.	1274.51	7.1871E-02
EU-155	66.	86.54	5.2959E-02
HF-181	31.	482.18	2.3598E-02
TA-182	63.	67.75	7.7580E-02
HG-203	66.	279.20	2.2479E-02

WHC-SD-WM-DP-154, REV.0

Sample ID : WRKLST#1991-BLNK Acquisition date : 15-AUG-1995 00:12:43

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	29.	569.70	2.1649E-02
TL-208	56.	277.36	2.6587E-01
PB-210	54.	46.50	0.0000E+00
BI-212	25.	727.18	3.6300E-01
PB-212	82.	238.63	4.1826E-02
BI-214	54.	609.31	6.8799E-02
PB-214	94.	351.92	1.2928E-01
RA-224	61.	240.99	3.9996E-01
RA-226	84.	186.10	4.2868E-01
AC-228	33.	911.21	1.2782E-01
TH-228	72.	84.37	1.5002E+00
TH-229	64.	88.47	6.6683E-02
U-232	47.	57.78	3.1948E+01
PA-233	48.	312.17	4.3894E-02
PA-234M	7.	1001.03	2.8654E-02
TH-234	59.	63.29	9.1082E-01
U-235	88.	185.71	2.6714E-02
NP-237	68.	86.48	1.4200E-01
U-237	62.	59.54	1.7177E-01
NP-238	11.	984.45	7.4441E-02
NP-239	85.	106.12	6.5870E-02
PU-239	78.	129.30	2.0106E+02
AM-241	62.	59.54	1.6476E-01
AM-243	74.	74.67	4.2440E-02

```
********************************************************************************
* 222-S Laboratory Counting Room    15-AUG-1995 01:56:59.09                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S95T1329-SAMPLE
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3904.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:04.80 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        15-AUG-1995 01:06:19.22
Decayed to:               15-AUG-1995 01:06:19.22
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  MB
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by:

date: 8-15-95

Verified by:

8/15/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.54*	27694	1.51	1323.25	1315	15	1.2		CS-137	31.3
0	1273.52	6	0.67	2547.37	2539	15306.5			NA-22	1.064E-02

Sample ID : S95T1329-SAMPLE Acquisition date : 15-AUG-1995 01:06:19

Total number of lines in spectrum 2
Number of unidentified lines 0
Number of lines tentatively identified by NID 2 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~1.064E-02~~	~~1.064E-02~~	~~3.261E-02~~	~~306.45~~	~~BKG~~
CS-137	30.00Y	1.000	3.130E+01	3.130E+01	0.038E+01	1.23	
	Total Activity :		3.131E+01	3.131E+01			
Grand Total Activity :			3.131E+01	3.131E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : S95T1329-SAMPLE Acquisition date : 15-AUG-1995 01:06:19

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	865.	477.59	9.6888E-01
NA-24	10.	1368.55	2.6307E-02
K-40	128.	1460.75	9.2739E-01
SC-46	33.	1120.55	4.0196E-02
CR-51	826.	320.08	7.1238E-01
MN-54	26.	834.83	2.8093E-02
CO-56	23.	846.76	2.6287E-02
CO-57	1577.	122.06	6.8716E-02
CO-58	24.	810.78	2.6293E-02
FE-59	14.	1099.25	4.5346E-02
CO-60	13.	1332.50	2.8827E-02
ZN-65	19.	1115.55	5.9556E-02
SE-75	950.	264.66	1.1445E-01
KR-85	489.	514.00	1.8427E+01
SR-85	489.	514.01	8.3306E-02
Y-88	4.	1836.06	2.0984E-02
Y-90	6.	1760.70	8.8170E-02
Y-91	12.	1204.67	8.6492E+00
NB-94	17.	871.09	2.3499E-02
NB-95	31.	765.78	2.8146E-02
ZR-95	25.	756.73	4.5683E-02
RU-103	561.	497.08	9.1641E-02
RURH-106	182.	621.93	1.1571E+00
AG-108m	36.	722.94	3.2016E-02
CD-109	1611.	88.03	2.3002E+00
AG-110M	671.	657.76	1.2205E-01
SN-113	807.	391.69	1.2913E-01
TE-123m	1294.	159.00	6.4039E-02
SB-124	197.	602.73	5.9393E-02
SB-125	924.	427.89	3.2261E-01
TE-125m	1536.	109.27	2.2083E+01
I-129	976.	39.60	0.0000E+00
I-131	773.	364.48	9.4494E-02
XE-131m	1294.	163.93	2.7853E+00
BA-133	760.	356.02	1.2031E-01
CS-134	191.	604.70	5.8708E-02
CS-136	22.	818.51	2.5053E-02
CS-138	8.	1435.86	5.3660E-02
CE-139	1282.	165.85	6.8367E-02
BA-140	355.	537.31	2.9003E-01
LA-140	5.	1596.21	2.2065E-02
CE-141	1366.	145.44	1.1172E-01
CE-144	1421.	133.51	4.9381E-01
CEPR-144	1421.	133.51	9.8662E-01
EU-152	6.	1408.01	9.6096E-02
EU-154	24.	1274.51	1.1172E-01
EU-155	1615.	86.54	2.6115E-01
HF-181	730.	482.18	1.1535E-01
TA-182	1354.	67.75	3.5921E-01
HG-203	909.	279.20	8.3523E-02
BI-207	230.	569.70	6.1183E-02

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	955.	277.36	1.0998E+00
PB-210	982.	46.50	0.0000E+00
BI-212	30.	727.18	4.0205E-01
PB-212	1088.	238.63	1.5240E-01
BI-214	230.	609.31	1.4148E-01
PB-214	836.	351.92	3.8672E-01
RA-224	1020.	240.99	1.6378E+00
RA-226	1426.	186.10	1.7683E+00
AC-228	40.	911.21	1.4061E-01
TH-228	1554.	84.37	6.9585E+00
TH-229	1601.	88.47	3.3237E-01
U-232	1147.	57.78	1.5853E+02
PA-233	794.	312.17	1.7892E-01
PA-234M	23.	1001.03	5.1466E-02
TH-234	1256.	63.29	4.2127E+00
U-235	1447.	185.71	1.0824E-01
NP-237	1613.	86.48	6.9135E-01
U-237	1206.	59.54	7.5940E-01
NP-238	14.	984.45	8.4256E-02
NP-239	1552.	106.12	2.8165E-01
PU-239	1488.	129.30	8.7856E+02
AM-241	1206.	59.54	7.2842E-01
AM-243	1413.	74.67	1.8534E-01

WHC-SD-WM-DP-154, REV. 0

```
**********************************************************************************
* 222-S Laboratory Counting Room    15-AUG-1995 02:49:09.75                      *
**********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:              S95T1329-DUP
Sample Size:            1.00000E-03 LI
Dilution Factor:        1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:            GEA3
File Number:            dka300:[spec.GEA3]3g3905.cnf
Geometry:               42
Description:
Count Time:             0 00:50:00.00 sec
Real Time:              0 00:50:04.99 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:      15-AUG-1995 01:58:30.37
Decayed to:             15-AUG-1995 01:58:30.37
Standard Deviations:    2
Analysis Library:       ENVGEA
Analyst:                MB
Background Subtract:    DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
**********************************************************************************
```

Removed by: [signature]
date: 8/15-95

Verified by: [signature] 8/15/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.55*	28890	1.55	1323.28	1316	16	1.2		CS-137	32.7

Sample ID : S95T1329-DUP Acquisition date : 15-AUG-1995 01:58:30

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	3.265E+01	3.265E+01	0.039E+01	1.20	
Total Activity :			3.265E+01	3.265E+01			
Grand Total Activity :			3.265E+01	3.265E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	929.	477.59	1.0040E+00
NA-22	20.	1274.53	3.4928E-02
NA-24	12.	1368.55	2.9120E-02
K-40	148.	1460.75	9.9525E-01
SC-46	24.	1120.55	3.4211E-02
CR-51	921.	320.08	7.5232E-01
MN-54	35.	834.83	3.2261E-02
CO-56	25.	846.76	2.7565E-02
CO-57	1541.	122.06	6.7942E-02
CO-58	25.	810.78	2.6963E-02
FE-59	13.	1099.25	4.4805E-02
CO-60	15.	1332.50	3.1040E-02
ZN-65	15.	1115.55	5.2807E-02
SE-75	953.	264.66	1.1464E-01
KR-85	510.	514.00	1.8804E+01
SR-85	509.	514.01	8.4989E-02
Y-88	3.	1836.06	1.8104E-02
Y-90	6.	1760.70	8.7783E-02
Y-91	17.	1204.67	1.0184E+01
NB-94	16.	871.09	2.2477E-02
NB-95	25.	765.78	2.5413E-02
ZR-95	32.	756.73	5.2437E-02
RU-103	556.	497.08	9.1192E-02
RURH-106	189.	621.93	1.1768E+00
AG-108m	46.	722.94	3.6275E-02
CD-109	1658.	88.03	2.3335E+00
AG-110M	582.	657.76	1.1366E-01
SN-113	832.	391.69	1.3115E-01
TE-123m	1330.	159.00	6.4930E-02
SB-124	210.	602.73	6.1265E-02
SB-125	957.	427.89	3.2840E-01
TE-125m	1608.	109.27	2.2597E+01
I-129	994.	39.60	0.0000E+00
I-131	854.	364.48	9.9324E-02
XE-131m	1269.	163.93	2.7591E+00
BA-133	839.	356.02	1.2646E-01
CS-134	196.	604.70	5.9579E-02
CS-136	32.	818.51	3.0646E-02
CS-138	6.	1435.86	4.6888E-02
CE-139	1323.	165.85	6.9436E-02
BA-140	313.	537.31	2.7235E-01
LA-140	3.	1596.21	1.7092E-02
CE-141	1430.	145.44	1.1431E-01
CE-144	1489.	133.51	5.0546E-01
CEPR-144	1489.	133.51	1.0101E+00
EU-152	8.	1408.01	1.1504E-01
EU-154	20.	1274.51	1.0158E-01
EU-155	1680.	86.54	2.6634E-01
HF-181	745.	482.18	1.1646E-01
TA-182	1421.	67.75	3.6788E-01
HG-203	914.	279.20	8.3738E-02

WHC-SD-WM-DP-154, REV. 0

Sample ID : S95T1329-DUP Acquisition date : 15-AUG-1995 01:58:30

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	201.	569.70	5.7171E-02
TL-208	965.	277.36	1.1056E+00
PB-210	1011.	46.50	0.0000E+00
BI-212	28.	727.18	3.8456E-01
PB-212	1161.	238.63	1.5736E-01
BI-214	210.	609.31	1.3504E-01
PB-214	852.	351.92	3.9053E-01
RA-224	1075.	240.99	1.6816E+00
RA-226	1398.	186.10	1.7505E+00
AC-228	37.	911.21	1.3453E-01
TH-228	1600.	84.37	7.0590E+00
TH-229	1626.	88.47	3.3492E-01
U-232	1251.	57.78	1.6554E+02
PA-233	822.	312.17	1.8209E-01
PA-234M	18.	1001.03	4.5594E-02
TH-234	1293.	63.29	4.2745E+00
U-235	1377.	185.71	1.0562E-01
NP-237	1678.	86.48	7.0495E-01
U-237	1300.	59.54	7.8848E-01
NP-238	20.	984.45	1.0288E-01
NP-239	1599.	106.12	2.8590E-01
PU-239	1562.	129.30	9.0038E+02
AM-241	1300.	59.54	7.5630E-01
AM-243	1523.	74.67	1.9242E-01

LABCORE Data Entry Template for Worklist# 2129

Analyst: SMF **Instrument:** GEA00 3 **Book #** 136B52

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: GEA BX-109; use 0.100 mL, dilute if needed. R(0) -PPB

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD	1.0 ml			@GEA-02 C060-02	SOLID			N/A	uCi/g
		1 STD				@GEA-02 C060-02E	SOLID			N/A	% Ct. Error
		1 STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1 STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP				@GEA-02 C060-02	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2 BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 C060-02	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 C060-02E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments: Prep Blk, Lcm, & Sam Dup : 0.100 ml samp size

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2129

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T001471	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000059	BX-109	4 DUP	S95T001471	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 2129

Susie M. Dalton 8-30-95
Analyst Signature Date

Sharon L Walde 9-6-95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		3.45E+01	3.45E-02	1.04			0.00E+00			
Work List	CS-137		2.53E+01	2.53E-02	1.47			0.00E+00			
2129				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
LIQUID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#2129				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38831				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
SMF				0.00E+00				0.00E+00			
Date											
08/30/95											
Time											
07:25 PM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: Shyam Lucas Date: 08/31/95

Approved by: R Bachelor Date: 9/5/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.0436 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	2.66E-01	2.54E-01				ERR			
Work List	CS-137	<	3.21E-01	3.07E-01				ERR			
2129	EU-154	<	5.37E-01	5.15E-01				ERR			
Test Code	EU-155	<	4.60E-01	4.41E-01				ERR			
@GEA-02	AM-241	<	1.66E+00	1.59E+00				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T1471				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
DUP's Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
SMF				0.00E+00				ERR			
Date											
08/30/95											
Time											
07:25 PM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: Shayna L Hall Date: 09/06/95

Approved by: B Bachelor Date: 9/6/95

Form 548121_1 Rev. 2.3

999

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

1.0436 < Enter SAMPLE g/L 1.0608 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	<	AVERAGE µCi/g	RPD
SAMPLES	CO-60	<	2.30E-01	2.21E-01		<	2.88E-01	2.72E-01		<	2.46E-01	NA
Work List	CS-137		1.45E+01	1.39E+01	6.15		1.40E+01	1.32E+01	6.34		1.36E+01	5.5
2129	EU-154	<	6.46E-01	6.18E-01		<	7.08E-01	6.67E-01		<	6.43E-01	NA
Test Code	EU-155	<	7.90E-01	7.57E-01		<	7.16E-01	6.75E-01		<	7.16E-01	NA
@GEA-02	AM-241	<	2.22E+00	2.13E+00		<	2.38E+00	2.24E+00		<	2.18E+00	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T1471				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
SMF				0.00E+00				0.00E+00				
Date												
08/30/95												
Time												
07:25 PM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

Data Entry by: Shyron L Hall Date: 08/31/95

Approved by: B Bachelor Date: 9/5/95

Form 548121_1 Rev. 2.3

1000

****
* 222-S Laboratory Counting Room 30-AUG-1995 20:27:34.05 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST2129-STD
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00

Removed by:

date: 8-30-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3055.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:11.84 sec

Verified by:

8/31/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 30-AUG-1995 19:36:45.32
Decayed to: 30-AUG-1995 19:36:45.32
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.67*	22395	1.50	1323.51	1318	13	1.5		CS-137	25.3
0	1173.21	21812	1.85	2346.69	2338	17	1.5		CO-60	34.4
0	1332.46	19790	2.00	2665.29	2655	20	1.5		CO-60	34.6

WHC-SD-WM-DP-154, REV (

Total number of lines in spectrum 3
Number of unidentified lines 0
Number of lines tentatively identified by NID 3 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	3.452E+01	3.452E+01	0.036E+01	1.04	
CS-137	30.00Y	1.000	2.531E+01	2.531E+01	0.037E+01	1.47	
Total Activity :			5.983E+01	5.983E+01			
Grand Total Activity :			5.983E+01	5.983E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1326.	477.59	1.1996E+00
NA-22	102.	1274.53	7.9095E-02
NA-24	26.	1368.55	4.3267E-02
K-40	143.	1460.75	9.7840E-01
SC-46	822.	1120.55	2.0196E-01
CR-51	1344.	320.08	9.0879E-01
MN-54	981.	834.83	1.7123E-01
CO-56	976.	846.76	1.7299E-01
CO-57	1496.	122.06	6.6939E-02
CO-58	969.	810.78	1.6689E-01
FE-59	1017.	1099.25	3.9113E-01
ZN-65	926.	1115.55	4.2110E-01
SE-75	1713.	264.66	1.5374E-01
KR-85	1058.	514.00	2.7092E+01
SR-85	1057.	514.01	1.2248E-01
Y-88	19.	1836.06	4.6227E-02
Y-90	26.	1760.70	1.8076E-01
Y-91	279.	1204.67	4.1726E+01
NB-94	1131.	871.09	1.9085E-01
NB-95	856.	765.78	1.4885E-01
ZR-95	881.	756.73	2.7376E-01
RU-103	1011.	497.08	1.2301E-01
RURH-106	869.	621.93	2.5262E+00
AG-108m	820.	722.94	1.5237E-01
CD-109	1336.	88.03	2.0943E+00
AG-110M	1092.	657.76	1.5566E-01
SN-113	1357.	391.69	1.6747E-01
TE-123m	1592.	159.00	7.1037E-02
SB-124	848.	602.73	1.2326E-01
SB-125	1469.	427.89	4.0677E-01
TE-125m	1417.	109.27	2.1211E+01
I-129	1238.	39.60	0.0000E+00
I-131	1293.	364.48	1.2223E-01
XE-131m	1625.	163.93	3.1221E+00
BA-133	1374.	356.02	1.6175E-01
CS-134	832.	604.70	1.2266E-01
CS-136	974.	818.51	1.6841E-01
CS-138	33.	1435.86	1.0583E-01
CE-139	1625.	165.85	7.6958E-02
BA-140	940.	537.31	4.7195E-01
LA-140	26.	1596.21	5.0118E-02
CE-141	1614.	145.44	1.2144E-01
CE-144	1525.	133.51	5.1159E-01
CEPR-144	1525.	133.51	1.0223E+00
EU-152	33.	1408.01	2.3390E-01
EU-154	102.	1274.51	2.3011E-01
EU-155	1312.	86.54	2.3539E-01
HF-181	1203.	482.18	1.4801E-01
TA-182	1228.	67.75	3.4206E-01
HG-203	1546.	279.20	1.0889E-01
BI-207	787.	569.70	1.1308E-01

Sample ID : WORKLIST2129-STD Acquisition date : 30-AUG-1995 19:36:45

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	1595.	277.36	1.4210E+00
PB-210	1302.	46.50	0.0000E+00
BI-212	837.	727.18	2.1124E+00
PB-212	1801.	238.63	1.9603E-01
BI-214	888.	609.31	2.7790E-01
PB-214	1364.	351.92	4.9469E-01
RA-224	1789.	240.99	2.1693E+00
RA-226	1698.	186.10	1.9295E+00
AC-228	1309.	911.21	8.0146E-01
TH-228	1323.	84.37	6.4194E+00
TH-229	1338.	88.47	3.0381E-01
U-232	1217.	57.78	1.6328E+02
PA-233	1457.	312.17	2.4246E-01
PA-234M	1018.	1001.03	3.4554E-01
TH-234	1266.	63.29	4.2292E+00
U-235	1693.	185.71	1.1708E-01
NP-237	1310.	86.48	6.2305E-01
U-237	1283.	59.54	7.8347E-01
NP-238	1054.	984.45	7.3968E-01
NP-239	1399.	106.12	2.6739E-01
PU-239	1617.	129.30	9.1590E+02
AM-241	1283.	59.54	7.5146E-01
AM-243	1279.	74.67	1.7633E-01

****
* 222-S Laboratory Counting Room 30-AUG-1995 22:14:34.02 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST2129-BLK
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+01

Removed by:

D.H. Midkiff
date: 8-30-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3058.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.46 sec

Verified by:

RJ Mackelor 8/31/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 30-AUG-1995 21:23:57.25
Decayed to: 30-AUG-1995 21:23:57.25
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.64*	28	1.27	1323.47	1316	13	97.4		CS-137	0.321
0	1460.78*	23	1.45	2922.05	2915	15	111.7		K-40	3.99

Sample ID : WORKLIST2129-BLK Acquisition date : 30-AUG-1995 21:23:57

Total number of lines in spectrum 2
Number of unidentified lines 0
Number of lines tentatively identified by NID 2 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~3.986E+00~~	~~3.986E+00~~	~~4.453E+00~~	~~111.73~~	? BKG
~~CS-137~~	~~30.00Y~~	~~1.000~~	~~3.205E-01~~	~~3.205E-01~~	~~3.121E-01~~	~~97.37~~	? BKG
Total Activity :			4.306E+00	4.306E+00			
Grand Total Activity :			4.306E+00	4.306E+00			

WHC-SD-WM-DP-154, REV. 0

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	35.	477.59	1.9502E+00
NA-22	6.	1274.53	1.8551E-01
NA-24	4.	1368.55	1.6936E-01
SC-46	23.	1120.55	3.3721E-01
CR-51	41.	320.08	1.5918E+00
MN-54	22.	834.83	2.5492E-01
CO-56	12.	846.76	1.8933E-01
CO-57	59.	122.06	1.3255E-01
CO-58	20.	810.78	2.3691E-01
FE-59	15.	1099.25	4.6974E-01
CO-60	11.	1332.50	2.6559E-01
ZN-65	14.	1115.55	5.2194E-01
SE-75	55.	264.66	2.7554E-01
KR-85	35.	514.00	4.9068E+01
SR-85	35.	514.01	2.2125E-01
Y-88	5.	1836.06	2.3461E-01
Y-90	10.	1760.70	1.1262E+00
Y-91	16.	1204.67	1.0125E+02
NB-94	14.	871.09	2.1303E-01
NB-95	23.	765.78	2.4632E-01
ZR-95	21.	756.73	4.2313E-01
RU-103	23.	497.08	1.8462E-01
RURH-106	29.	621.93	4.5945E+00
AG-108m	13.	722.94	1.8984E-01
CD-109	56.	88.03	4.2892E+00
AG-110M	18.	657.76	1.9975E-01
SN-113	43.	391.69	2.9909E-01
TE-123m	74.	159.00	1.5315E-01
SB-124	25.	602.73	2.1202E-01
SB-125	36.	427.89	6.3331E-01
TE-125m	85.	109.27	5.1848E+01
I-129	49.	39.60	0.0000E+00
I-131	35.	364.48	2.0016E-01
XE-131m	81.	163.93	6.9707E+00
BA-133	44.	356.02	2.8989E-01
CS-134	26.	604.70	2.1630E-01
CS-136	18.	818.51	2.2621E-01
CS-138	5.	1435.86	4.1237E-01
CE-139	87.	165.85	1.7772E-01
BA-140	15.	537.31	6.0369E-01
LA-140	5.	1596.21	2.2567E-01
CE-141	76.	145.44	2.6398E-01
CE-144	85.	133.51	1.2093E+00
CEPR-144	85.	133.51	2.4163E+00
EU-152	7.	1408.01	1.0695E+00
EU-154	6.	1274.51	5.3703E-01
EU-155	50.	86.54	4.5974E-01
HF-181	37.	482.18	2.6062E-01
TA-182	68.	67.75	8.0386E-01
HG-203	55.	279.20	2.0584E-01
BI-207	27.	569.70	2.1001E-01

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	63.	277.36	2.8156E+00
PB-210	62.	46.50	0.0000E+00
BI-212	24.	727.18	3.5409E+00
PB-212	82.	238.63	4.1848E-01
BI-214	46.	609.31	6.3456E-01
PB-214	68.	351.92	1.0984E+00
RA-224	70.	240.99	4.3011E+00
RA-226	82.	186.10	4.2336E+00
AC-228	31.	911.21	1.2346E+00
TH-228	68.	84.37	1.4523E+01
TH-229	52.	88.47	5.9828E-01
U-232	54.	57.78	3.4481E+02
PA-233	55.	312.17	4.7045E-01
PA-234M	17.	1001.03	4.4351E-01
TH-234	46.	63.29	8.0729E+00
U-235	82.	185.71	2.5744E-01
NP-237	51.	86.48	1.2293E+00
U-237	63.	59.54	1.7333E+00
NP-238	19.	984.45	1.0032E+00
NP-239	68.	106.12	5.8887E-01
PU-239	65.	129.30	1.8393E+03
AM-241	63.	59.54	1.6624E+00
AM-243	65.	74.67	3.9793E-01

****
* 222-S Laboratory Counting Room 30-AUG-1995 23:07:21.30 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID: S-95T1471-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+01

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3059.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.68 sec

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time: 30-AUG-1995 22:16:45.89
Decayed to: 30-AUG-1995 22:16:45.89
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20
****

Removed by:
D. Hamilton
date: 8-30-95

Verified by:
Bachelor 8/31/95

WHC-SD-WM-DP-154, REV. 0

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	609.66*	34	1.64	1219.51	1215	10	59.5			
0	661.74*	1286	1.42	1323.66	1316	16	6.2		CS-137	14.5
0	1460.96*	7	1.56	2922.40	2915	16361.1			K-40	1.17

Total number of lines in spectrum 3
Number of unidentified lines 0
Number of lines tentatively identified by NID 3 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~1.170E+00~~	~~1.170E+00~~	~~4.225E+00~~	~~361.14~~	~~Big~~
CS-137	30.00Y	1.000	1.454E+01	1.454E+01	0.089E+01	6.15	
	Total Activity :		1.571E+01	1.571E+01			
Grand Total Activity :			1.571E+01	1.571E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	79.	477.59	2.9328E+00
NA-22	8.	1274.53	2.2201E-01
NA-24	8.	1368.55	2.3399E-01
SC-46	18.	1120.55	2.9796E-01
CR-51	79.	320.08	2.1987E+00
MN-54	13.	834.83	1.9969E-01
CO-56	17.	846.76	2.2834E-01
CO-57	144.	122.06	2.0774E-01
CO-58	12.	810.78	1.8317E-01
FE-59	15.	1099.25	4.6974E-01
CO-60	8.	1332.50	2.3019E-01
ZN-65	15.	1115.55	5.3467E-01
SE-75	101.	264.66	3.7341E-01
KR-85	85.	514.00	7.6643E+01
SR-85	85.	514.01	3.4628E-01
Y-88	5.	1836.06	2.3461E-01
Y-90	13.	1760.70	1.2833E+00
Y-91	13.	1204.67	9.0461E+01
NB-94	19.	871.09	2.4840E-01
NB-95	14.	765.78	1.9357E-01
ZR-95	17.	756.73	3.8092E-01
RU-103	65.	497.08	3.1152E-01
RURH-106	36.	621.93	5.1303E+00
AG-108m	15.	722.94	2.0609E-01
CD-109	143.	88.03	6.8430E+00
AG-110M	46.	657.76	3.1831E-01
SN-113	81.	391.69	4.0874E-01
TE-123m	123.	159.00	1.9767E-01
SB-124	25.	602.73	2.1276E-01
SB-125	68.	427.89	8.7327E-01
TE-125m	125.	109.27	6.3065E+01
I-129	100.	39.60	0.0000E+00
I-131	65.	364.48	2.7309E-01
XE-131m	149.	163.93	9.4619E+00
BA-133	97.	356.02	4.2877E-01
CS-134	28.	604.70	2.2321E-01
CS-136	16.	818.51	2.1828E-01
CS-138	9.	1435.86	5.6591E-01
CE-139	133.	165.85	2.2013E-01
BA-140	30.	537.31	8.4963E-01
LA-140	3.	1596.21	1.7091E-01
CE-141	121.	145.44	3.3312E-01
CE-144	152.	133.51	1.6151E+00
CEPR-144	152.	133.51	3.2278E+00
EU-152	11.	1408.01	1.3384E+00
EU-154	8.	1274.51	6.4500E-01
EU-155	148.	86.54	7.8993E-01
HF-181	63.	482.18	3.3963E-01
TA-182	131.	67.75	1.1158E+00
HG-203	106.	279.20	2.8486E-01
BI-207	39.	569.70	2.5234E-01

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	95.	277.36	3.4720E+00
PB-210	112.	46.50	0.0000E+00
BI-212	19.	727.18	3.1664E+00
PB-212	131.	238.63	5.2795E-01
BI-214	66.	609.31	7.5571E-01
PB-214	116.	351.92	1.4394E+00
RA-224	118.	240.99	5.5739E+00
RA-226	151.	186.10	5.7512E+00
AC-228	32.	911.21	1.2531E+00
TH-228	141.	84.37	2.0966E+01
TH-229	141.	88.47	9.8687E-01
U-232	102.	57.78	4.7201E+02
PA-233	86.	312.17	5.8782E-01
PA-234M	15.	1001.03	4.2076E-01
TH-234	114.	63.29	1.2715E+01
U-235	159.	185.71	3.5915E-01
NP-237	148.	86.48	2.0918E+00
U-237	112.	59.54	2.3172E+00
NP-238	13.	984.45	8.2343E-01
NP-239	132.	106.12	8.2287E-01
PU-239	138.	129.30	2.6773E+03
AM-241	112.	59.54	2.2224E+00
AM-243	153.	74.67	6.0940E-01

```
********************************************************************************
* 222-S Laboratory Counting Room    31-AUG-1995 00:05:11.17                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                S-95T1471-DUP
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+01

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3060.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:00.67 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        30-AUG-1995 23:14:34.27
Decayed to:               30-AUG-1995 23:14:34.27
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  D
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by:

Date: 8-31-95

Verified by:

8/31/95

WHC-SD-WM-DP-154, REV. 0

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	238.67*	32	1.61	477.72	474		7107.4			
0	661.73*	1237	1.44	1323.64	1316	16	6.3		CS-137	14.0

Total number of lines in spectrum 2
Number of unidentified lines 0
Number of lines tentatively identified by NID 2 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.00Y	1.000	1.399E+01	1.399E+01	0.089E+01	6.34	
Total Activity :			1.399E+01	1.399E+01			
Grand Total Activity :			1.399E+01	1.399E+01			

WHC-SD-WM-DP-154, REV. 0

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	76.	477.59	2.8711E+00
NA-22	10.	1274.53	2.4519E-01
NA-24	6.	1368.55	2.0424E-01
K-40	128.	1460.75	9.2533E+00
SC-46	14.	1120.55	2.6620E-01
CR-51	96.	320.08	2.4324E+00
MN-54	16.	834.83	2.2101E-01
CO-56	13.	846.76	2.0204E-01
CO-57	153.	122.06	2.1428E-01
CO-58	17.	810.78	2.1921E-01
FE-59	9.	1099.25	3.7206E-01
CO-60	13.	1332.50	2.8827E-01
ZN-65	14.	1115.55	5.1645E-01
SE-75	94.	264.66	3.5963E-01
KR-85	69.	514.00	6.8957E+01
SR-85	68.	514.01	3.1136E-01
Y-88	4.	1836.06	2.0924E-01
Y-90	5.	1760.70	7.7297E-01
Y-91	10.	1204.67	7.7596E+01
NB-94	13.	871.09	2.0214E-01
NB-95	14.	765.78	1.9302E-01
ZR-95	17.	756.73	3.7772E-01
RU-103	55.	497.08	2.8582E-01
RURH-106	30.	621.93	4.7266E+00
AG-108m	19.	722.94	2.2923E-01
CD-109	130.	88.03	6.5367E+00
AG-110M	30.	657.76	2.5660E-01
SN-113	79.	391.69	4.0523E-01
TE-123m	118.	159.00	1.9301E-01
SB-124	36.	602.73	2.5335E-01
SB-125	83.	427.89	9.6903E-01
TE-125m	129.	109.27	6.3890E+01
I-129	112.	39.60	0.0000E+00
I-131	82.	364.48	3.0693E-01
XE-131m	131.	163.93	8.8750E+00
BA-133	69.	356.02	3.6251E-01
CS-134	37.	604.70	2.6008E-01
CS-136	16.	818.51	2.1367E-01
CS-138	6.	1435.86	4.4498E-01
CE-139	137.	165.85	2.2383E-01
BA-140	40.	537.31	9.7587E-01
LA-140	4.	1596.21	1.8891E-01
CE-141	141.	145.44	3.5935E-01
CE-144	139.	133.51	1.5434E+00
CEPR-144	139.	133.51	3.0846E+00
EU-152	3.	1408.01	7.0445E-01
EU-154	10.	1274.51	7.0794E-01
EU-155	121.	86.54	7.1584E-01
HF-181	68.	482.18	3.5218E-01
TA-182	117.	67.75	1.0570E+00
HG-203	100.	279.20	2.7734E-01

Sample ID : S-95T1471-DUP Acquisition date : 30-AUG-1995 23:14:34

WHC-SD-WM-DP-154, REV. 0

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	37.	569.70	2.4526E-01
TL-208	95.	277.36	3.4718E+00
PB-210	108.	46.50	0.0000E+00
BI-212	25.	727.18	3.6822E+00
PB-212	139.	238.63	5.4434E-01
BI-214	70.	609.31	7.7921E-01
PB-214	96.	351.92	1.3064E+00
RA-224	128.	240.99	5.8022E+00
RA-226	149.	186.10	5.7183E+00
AC-228	28.	911.21	1.1796E+00
TH-228	121.	84.37	1.9444E+01
TH-229	137.	88.47	9.7262E-01
U-232	103.	57.78	4.7596E+02
PA-233	77.	312.17	5.5764E-01
PA-234M	11.	1001.03	3.6073E-01
TH-234	117.	63.29	1.2838E+01
U-235	153.	185.71	3.5164E-01
NP-237	119.	86.48	1.8807E+00
U-237	128.	59.54	2.4768E+00
NP-238	11.	984.45	7.4441E-01
NP-239	136.	106.12	8.3273E-01
PU-239	131.	129.30	2.6103E+03
AM-241	128.	59.54	2.3756E+00
AM-243	143.	74.67	5.8964E-01

THE FOLLOWING ANALYSES WERE RERUN AND INCLUDED IN THE DATA PACKAGE, BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

LABCORE Data Entry Template for Worklist# 1468

Analyst: SMorris **Instrument:** GEA00 2 **Book #** 121B52

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Use 1 mL sample. R(0)-PPB

OUT FOR RERUN

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 CO60-02	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1468

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000760	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 C060-02	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 C060-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 C060-02	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 C060-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments:

DATA
NOT USED
IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1468

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CS13702	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15402	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15502	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	AM24102	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02	AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1468

Sonja Norris 6-2-95
Analyst Signature Date

Analyst Signature Date 6-5-95

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO60		2.05E+01	2.05E-02	1.53			0.00E+00			
Work List	CS137		2.39E+01	2.39E-02	1.77			0.00E+00			
1468				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
LIQUID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST1468				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
SRM				0.00E+00				0.00E+00			
Date											
06/02/95											
Time											
02:45 PM											

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

DATA NOT USED IN PACKAGE

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.054 < Enter SAMPLE g/L [ ] < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO60	<	2.99E-02	1.46E-02				ERR			
Work List	CS137	<	6.56E-02	3.19E-02				ERR			
1468	EU154	<	9.40E-02	4.58E-02				ERR			
Test Code	EU155	<	7.36E-02	3.58E-02				ERR			
@GEA-02	AM241	<	1.60E-01	7.79E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T760				0.00E+00				ERR			
				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
DUP's Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
SRM				0.00E+00				ERR			
Date											
06/02/95											
Time											
02:45 PM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

DATA NOT USED IN PACKAGE

Data Entry by: _____ Date: 06/05/95

Approved by: _____ Date: 6/5/95

Form 548121 1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.054 < Enter SAMPLE g/L 2.0504 < Enter DUPLICATE g/L

Type	ANALYTE	?	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	?	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE/DUPLICATE	CO60	<	2.68E-02	1.30E-02		<	3.31E-02	1.61E-02		<	1.46E-02	NA
Work List	CS137	<	6.49E-02	3.16E-02			1.90E+01	9.27E+00	1.77		N/A	NA
1468	EU154	<	8.28E-02	4.03E-02		<	1.43E-01	6.97E-02		<	5.50E-02	NA
Test Code	EU155	<	7.17E-02	3.49E-02		<	3.36E-01	1.64E-01		<	9.94E-02	NA
@GEA-02	AM241	<	1.71E-01	8.33E-02		<	7.46E-01	3.64E-01		<	2.24E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T760				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
SRM				0.00E+00				0.00E+00				
Date												
06/02/95												
Time												
02:45 PM												

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

DATA NOT USED IN PACKAGE

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.1732 < Enter SAMPLE g/L 2.1128 < Enter DUPLICATE g/L

Type	ANALYTE	?	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	?	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %		AVERAGE µCi/g	RPD
SAMPLE/DUPLICATE	CO60	<	4.42E-02	2.03E-02		<	4.02E-02	1.90E-02		<	1.97E-02	NA
Work List	CS137		5.38E+01	2.48E+01	1.05		7.11E+01	3.37E+01	0.91		2.92E+01	30.5
1468	EU154	<	1.45E-01	6.67E-02		<	1.88E-01	8.90E-02		<	7.79E-02	NA
Test Code	EU155	<	3.75E-01	1.73E-01		<	4.89E-01	2.31E-01		<	2.02E-01	NA
@GEA-02	AM241	<	8.56E-01	3.94E-01		<	1.10E+00	5.20E-01		<	4.57E-01	NA
Matrix				0.00E+00				0.00E+00				
SOLID				0.00E+00				0.00E+00				
Sample #				0.00E+00				0.00E+00				
S95T763				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
DUP's Digest DF				0.00E+00				0.00E+00				
1				0.00E+00				0.00E+00				
				0.00E+00				0.00E+00				
Instrument Code				0.00E+00				0.00E+00				
WC38931				0.00E+00				0.00E+00				
Analyst				0.00E+00				0.00E+00				
SRM				0.00E+00				0.00E+00				
Date												
06/02/95												
Time	REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF											
02:45 PM	AVERAGE = (SAMPLE + DUPLICATE) / 2											
	RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100											

DATA NOT USED IN PACKAGE

Data Entry by: [signature] Date: 06/05/95

Approved by: [signature] Date: 6/5/95

Form 548121_1 Rev. 2.3

****
* 222-S Laboratory Counting Room 2-JUN-1995 18:02:57.22 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: WORKLIST1468-STD
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D. Mullins
date: 6-2-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2049.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:08.64 sec

Verified by: Machelor 6/5/95

WHC-SD-WM-DP-154, REV. 0

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 2-JUN-1995 17:12:10.93
Decayed to: 2-JUN-1995 17:12:10.93
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	563.18	565	1.30	1126.41	1119	15	26.3		CS-134	6.99
0	569.64	772	1.49	1139.33	1134	12	17.2		CS-134	5.24
0	604.98	4408	1.53	1210.01	1204	14	4.3		CS-134	4.96
0	661.95*	17228	1.52	1323.93	1316	17	1.8		CS-137	23.9
2	796.21	3220	1.68	1592.40	1585	26	4.4	1.46E+00	CS-134	5.21
2	802.21	344	1.78	1604.40	1585	26	28.0		CS-134	5.49
0	1173.60	10276	1.92	2347.27	2338	17	2.2		CO-60	20.2
0	1332.88	9540	1.89	2665.91	2656	20	2.1		CO-60	20.8
0	1365.88	91	2.01	2731.93	2728	17	33.1			
0	1400.43	39	7.64	2801.07	2793	26	85.9			

DATA NOT USED IN PACKAGE

Sample ID : WORKLIST1468-STD Acquisition date : 2-JUN-1995 17:12:10

Total number of lines in spectrum 10
Number of unidentified lines 2
Number of lines tentatively identified by NID 8 80.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.048E+01	2.048E+01	0.031E+01	1.53	
CS-134	2.06Y	1.000	5.100E+00	5.100E+00	0.152E+00	2.98	
CS-137	30.00Y	1.000	2.391E+01	2.391E+01	0.042E+01	1.77	
	Total Activity :		4.949E+01	4.949E+01			
Grand Total Activity :			4.949E+01	4.949E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Minimum Detectable Activity Report
Sample ID : WORKLIST1468-STD
Acquisition date : 2-JUN-1995 17:12:10

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1133.	477.59	1.3651E+00
NA-22	81.	1274.53	8.7683E-02
NA-24	68.	1368.55	8.7133E-02
K-40	85.	1460.75	9.3959E-01
SC-46	424.	1120.55	1.8009E-01
CR-51	1195.	320.08	1.0462E+00
MN-54	538.	834.83	1.5539E-01
CO-56	515.	846.76	1.5394E-01
CO-57	1288.	122.06	8.0245E-02
CO-58	527.	810.78	1.5087E-01
FE-59	501.	1099.25	3.4057E-01
ZN-65	485.	1115.55	3.7847E-01
SE-75	1390.	264.66	1.7032E-01
KR-85	816.	514.00	2.9441E+01
SR-85	816.	514.01	1.3309E-01
Y-88	9.	1836.06	3.8666E-02
Y-90	10.	1760.70	1.4396E-01
Y-91	148.	1204.67	3.7824E+01
NB-94	587.	871.09	1.6836E-01
NB-95	532.	765.78	1.4386E-01
ZR-95	463.	756.73	2.4338E-01
RU-103	877.	497.08	1.4151E-01
RURH-106	581.	621.93	2.5392E+00
AG-108m	454.	722.94	1.3904E-01
CD-109	1116.	88.03	2.5645E+00
AG-110M	776.	657.76	1.6108E-01
SN-113	1209.	391.69	1.9131E-01
TE-123m	1406.	159.00	8.3905E-02
SB-124	2871.	602.73	2.7911E-01
SB-125	1172.	427.89	4.4212E-01
TE-125m	1291.	109.27	2.6635E+01
I-129	1134.	39.60	0.0000E+00
I-131	1207.	364.48	1.4320E-01
XE-131m	1410.	163.93	3.6462E+00
BA-133	1179.	356.02	1.8193E-01
CS-136	551.	818.51	1.5523E-01
CS-138	25.	1435.86	1.1516E-01
CE-139	1384.	165.85	8.9015E-02
BA-140	751.	537.31	5.2166E-01
LA-140	11.	1596.21	4.0486E-02
CE-141	1443.	145.44	1.4535E-01
CE-144	1361.	133.51	6.1701E-01
CEPR-144	1361.	133.51	1.2328E+00
EU-152	18.	1408.01	2.1490E-01
EU-154	81.	1274.51	2.5494E-01
EU-155	1117.	86.54	2.9068E-01
HF-181	947.	482.18	1.6183E-01
TA-182	1062.	67.75	3.9257E-01
HG-203	1331.	279.20	1.2402E-01
BI-207	1450.	569.70	1.8945E-01
TL-208	1339.	277.36	1.5983E+00

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	1118.	46.50	0.0000E+00
BI-212	453.	727.18	1.9073E+00
PB-212	1578.	238.63	2.2666E-01
BI-214	638.	609.31	2.8966E-01
PB-214	1162.	351.92	5.5425E-01
RA-224	1523.	240.99	2.4716E+00
RA-226	1517.	186.10	2.2719E+00
AC-228	697.	911.21	7.1638E-01
TH-228	1139.	84.37	7.9580E+00
TH-229	1149.	88.47	3.7728E-01
U-232	1117.	57.78	1.5057E+02
PA-233	1228.	312.17	2.7194E-01
PA-234M	564.	1001.03	9.4212E+00
TH-234	1037.	63.29	4.4228E+00
U-235	1491.	185.71	1.3691E-01
NP-237	1116.	86.48	7.6982E-01
U-237	1114.	59.54	7.6094E-01
NP-238	513.	984.45	6.3544E-01
NP-239	1258.	106.12	3.3514E-01
PU-239	1395.	129.30	1.0903E+03
AM-241	1114.	59.54	7.2990E-01
AM-243	1147.	74.67	2.1703E-01

DATA
NOT USED
IN PACKAGE

****
* 222-S Laboratory Counting Room 2-JUN-1995 18:56:49.94 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID:	WORKLIST1468-BLK
Sample Size:	1.00000E-03 LI
Dilution Factor:	1.00000E+00
Conversion LI to LI:	1.00000E+00

Removed by: D. H. Milicia

date: 6-2-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID:	GEA2
File Number:	dka300:[spec.GEA2]2g2050.cnf
Geometry:	42
Description:	
Count Time:	0 00:50:00.00 sec
Real Time:	0 00:50:00.52 sec

Verified by: S. Machelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time:	2-JUN-1995 18:06:11.75
Decayed to:	2-JUN-1995 18:06:11.75
Standard Deviations:	2
Analysis Library:	ENVGEA
Analyst:	DM
Background Subtract:	DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	1461.28*	13	1.88	2922.83	2913	19191.4			K-40	0.284

DATA NOT USED IN PACKAGE

Sample ID : WORKLIST1468-BLK Acquisition date : 2-JUN-1995 18:06:11

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~2.844E-01~~	~~2.844E-01~~	~~5.443E-01~~	~~191.41~~	~~BKG~~
Total Activity :			2.844E-01	2.844E-01			
Grand Total Activity :			2.844E-01	2.844E-01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Sample ID : WORKLIST1468-BLK Acquisition date : 2-JUN-1995 18:06:11

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)	
BE-7	36.	477.59	2.4212E-01	
NA-22	11.	1274.53	3.2173E-02	
NA-24	7.	1368.55	2.7809E-02	
SC-46	22.	1120.55	4.1081E-02	
CR-51	48.	320.08	2.0882E-01	
MN-54	10.	834.83	2.0682E-02	
CO-56	5.	846.76	1.5186E-02	
CO-57	59.	122.06	1.7242E-02	
CO-58	11.	810.78	2.1677E-02	
FE-59	10.	1099.25	4.8096E-02	
CO-60	9.	1332.50	2.9890E-02	—
ZN-65	6.	1115.55	4.2087E-02	
SE-75	66.	264.66	3.7145E-02	
KR-85	47.	514.00	7.0558E+00	
SR-85	47.	514.01	3.1845E-02	
Y-88	4.	1836.06	2.5230E-02	
Y-90	7.	1760.70	1.1530E-01	
Y-91	7.	1204.67	8.4902E+00	
NB-94	14.	871.09	2.6338E-02	
NB-95	17.	765.78	2.5876E-02	
ZR-95	13.	756.73	4.0943E-02	
RU-103	25.	497.08	2.3864E-02	
RURH-106	22.	621.93	4.9650E-01	
AG-108m	19.	722.94	2.8082E-02	
CD-109	68.	88.03	6.3523E-01	
AG-110M	21.	657.76	2.6494E-02	
SN-113	35.	391.69	3.2570E-02	
TE-123m	86.	159.00	2.0714E-02	
SB-124	19.	602.73	2.2616E-02	
SB-125	38.	427.89	7.9241E-02	
TE-125m	77.	109.27	6.4926E+00	
I-129	69.	39.60	0.0000E+00	
I-131	52.	364.48	2.9758E-02	
XE-131m	75.	163.93	8.4236E-01	
BA-133	36.	356.02	3.1855E-02	
CS-134	21.	604.70	2.3718E-02	
CS-136	13.	818.51	2.3838E-02	
CS-137	103.	661.66	6.5606E-02	—
CS-138	6.	1435.86	5.6292E-02	
CE-139	75.	165.85	2.0757E-02	
BA-140	32.	537.31	1.0838E-01	
LA-140	7.	1596.21	3.2639E-02	
CE-141	74.	145.44	3.2837E-02	
CE-144	76.	133.51	1.4609E-01	
CEPR-144	76.	133.51	2.9199E-01	
EU-152	5.	1408.01	1.1489E-01	
EU-154	11.	1274.51	9.3988E-02	—
EU-155	72.	86.54	7.3594E-02	—
HF-181	25.	482.18	2.6192E-02	
TA-182	70.	67.75	1.0070E-01	
HG-203	55.	279.20	2.5269E-02	

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

Sample ID : WORKLIST1468-BLK Acquisition date : 2-JUN-1995 18:06:11

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-207	29.	569.70	2.6845E-02
TL-208	54.	277.36	3.2235E-01
PB-210	53.	46.50	0.0000E+00
BI-212	23.	727.18	4.3256E-01
PB-212	87.	238.63	5.3374E-02
BI-214	41.	609.31	7.3210E-02
PB-214	58.	351.92	1.2340E-01
RA-224	66.	240.99	5.1281E-01
RA-226	70.	186.10	4.8952E-01
AC-228	22.	911.21	1.2786E-01
TH-228	82.	84.37	2.1343E+00
TH-229	66.	88.47	9.0364E-02
U-232	62.	57.78	3.5439E+01
PA-233	57.	312.17	5.8346E-02
PA-234M	11.	1001.03	1.3225E+00
TH-234	56.	63.29	1.0299E+00
U-235	71.	185.71	2.9884E-02
NP-237	72.	86.48	1.9598E-01
U-237	54.	59.54	1.6673E-01
NP-238	12.	984.45	9.5638E-02
NP-239	54.	106.12	6.9386E-02
PU-239	66.	129.30	2.3724E+02
AM-241	54.	59.54	1.5993E-01
AM-243	74.	74.67	5.5050E-02

DATA NOT USED IN PACKAGE

****
* 222-S Laboratory Counting Room 2-JUN-1995 19:49:43.68 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T760-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

date: 6-2-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2051.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.52 sec

Verified by:

6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 2-JUN-1995 18:59:06.32
Decayed to: 2-JUN-1995 18:59:06.32
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	1120.05*	15	3.90	2240.13	2235	12	99.4			

DATA NOT USED IN PACKAGE

Sample ID : S95T760-SAM Acquisition date : 2-JUN-1995 18:59:06

Total number of lines in spectrum 1
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%
**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)	
BE-7	28.	477.59	2.1432E-01	
NA-22	9.	1274.53	2.8645E-02	
NA-24	8.	1368.55	2.8858E-02	
K-40	134.	1460.75	1.1799E+00	
SC-46	29.	1120.55	4.7330E-02	
CR-51	51.	320.08	2.1666E-01	
MN-54	19.	834.83	2.9263E-02	
CO-56	15.	846.76	2.6316E-02	
CO-57	70.	122.06	1.8752E-02	
CO-58	13.	810.78	2.3480E-02	
FE-59	9.	1099.25	4.5628E-02	
CO-60	7.	1332.50	2.6770E-02	—
ZN-65	11.	1115.55	5.7077E-02	
SE-75	48.	264.66	3.1631E-02	
KR-85	45.	514.00	6.8946E+00	
SR-85	45.	514.01	3.1142E-02	
Y-88	3.	1836.06	2.2817E-02	
Y-90	5.	1760.70	1.0436E-01	
Y-91	13.	1204.67	1.1423E+01	
NB-94	19.	871.09	3.0411E-02	
NB-95	10.	765.78	2.0107E-02	
ZR-95	19.	756.73	4.8770E-02	
RU-103	33.	497.08	2.7325E-02	
RURH-106	18.	621.93	4.4786E-01	
AG-108m	14.	722.94	2.4279E-02	
CD-109	70.	88.03	6.4221E-01	
AG-110M	24.	657.76	2.8187E-02	
SN-113	36.	391.69	3.2793E-02	
TE-123m	84.	159.00	2.0523E-02	
SB-124	22.	602.73	2.4271E-02	
SB-125	30.	427.89	7.1257E-02	
TE-125m	59.	109.27	5.7034E+00	
I-129	59.	39.60	0.0000E+00	
I-131	43.	364.48	2.7138E-02	
XE-131m	71.	163.93	8.1801E-01	
BA-133	33.	356.02	3.0318E-02	
CS-134	20.	604.70	2.3672E-02	
CS-136	14.	818.51	2.4660E-02	
CS-137	101.	661.66	6.4881E-02	—
CS-138	3.	1435.86	3.9805E-02	
CE-139	67.	165.85	1.9608E-02	
BA-140	18.	537.31	8.0806E-02	
LA-140	2.	1596.21	1.7446E-02	
CE-141	76.	145.44	3.3344E-02	
CE-144	78.	133.51	1.4803E-01	
CEPR-144	78.	133.51	2.9576E-01	
EU-152	6.	1408.01	1.2491E-01	
EU-154	9.	1274.51	8.2834E-02	—
EU-155	68.	86.54	7.1710E-02	—
HF-181	27.	482.18	2.7136E-02	
TA-182	61.	67.75	9.4015E-02	

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

Sample ID : S95T760-SAM Acquisition date : 2-JUN-1995 18:59:06

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
HG-203	55.	279.20	2.5112E-02
BI-207	19.	569.70	2.1709E-02
TL-208	58.	277.36	3.3278E-01
PB-210	52.	46.50	0.0000E+00
BI-212	20.	727.18	3.9695E-01
PB-212	83.	238.63	5.2097E-02
BI-214	40.	609.31	7.2618E-02
PB-214	61.	351.92	1.2694E-01
RA-224	77.	240.99	5.5710E-01
RA-226	86.	186.10	5.4225E-01
AC-228	30.	911.21	1.4861E-01
TH-228	70.	84.37	1.9758E+00
TH-229	69.	88.47	9.2487E-02
U-232	68.	57.78	3.7057E+01
PA-233	48.	312.17	5.3773E-02
PA-234M	18.	1001.03	1.6920E+00
TH-234	57.	63.29	1.0353E+00
U-235	84.	185.71	3.2424E-02
NP-237	68.	86.48	1.9066E-01
U-237	61.	59.54	1.7805E-01
NP-238	11.	984.45	9.1427E-02
NP-239	65.	106.12	7.6322E-02
PU-239	73.	129.30	2.4974E+02
AM-241	61.	59.54	1.7078E-01
AM-243	79.	74.67	5.6784E-02

WHC-SD-WM-DP-154, REV. C

DATA NOT USED IN PACKAGE

```
********:**********************************************************************
* 222-S Laboratory Counting Room    2-JUN-1995 20:44:26.12                   *
**********************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:              S95T760-DUP
Sample Size:            1.00000E-03 LI
Dilution Factor:        1.00000E+00
Conversion LI to LI:    1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:            GEA2
File Number:            dka300:[spec.GEA2]2g2052.cnf
Geometry:               42
Description:
Count Time:             0 00:50:00.00 sec
Real Time:              0 00:50:03.40 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:      2-JUN-1995 19:53:47.15
Decayed to:             2-JUN-1995 19:53:47.15
Standard Deviations:    2
Analysis Library:       ENVGEA
Analyst:                DM
Background Subtract:    DKA300:[SPEC.GEA2]2GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       21-MAR-1994 09:31:55.15
 Date of last efficiency calibration:   21-MAR-1994 09:43:42.61
**********************************************************************
```

Removed by:

D. H. Mihia

date: 6-2-95

Verified by:

J Bachelor 6/5/95

WHC-SD-WM-DP-154, REV. 0

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.98*	13711	1.48	1323.98	1316	15	1.8		CS-137	19.0
0	723.54	25	2.29	1447.08	1443	9	77.5			
0	1172.53	17	4.09	2345.12	2337	15	110.5		CO-60	3.340E-02
0	1332.75	15	1.60	2665.66	2657	17	80.3		CO-60	3.298E-02

DATA NOT USED IN PACK...

Total number of lines in spectrum 4
Number of unidentified lines 0
Number of lines tentatively identified by NID 4 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~CO-60~~	~~5.27Y~~	~~1.000~~	~~3.312E-02~~	~~3.312E-02~~	~~2.152E-02~~	~~64.98~~	~~BKG~~
CS-137	30.00Y	1.000	1.903E+01	1.903E+01	0.034E+01	1.77	
	Total Activity :		1.906E+01	1.906E+01			
Grand Total Activity :			1.906E+01	1.906E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Sample ID : S95T760-DUP Acquisition date : 2-JUN-1995 19:53:47

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)	
BE-7	531.	477.59	9.3482E-01	
NA-22	26.	1274.53	4.9359E-02	
NA-24	8.	1368.55	2.9798E-02	
K-40	108.	1460.75	1.0609E+00	
SC-46	27.	1120.55	4.5225E-02	
CR-51	528.	320.08	6.9518E-01	
MN-54	25.	834.83	3.3687E-02	
CO-56	21.	846.76	3.1086E-02	
CO-57	1357.	122.06	8.2383E-02	
CO-58	15.	810.78	2.5092E-02	
FE-59	22.	1099.25	7.1063E-02	
ZN-65	18.	1115.55	7.3039E-02	
SE-75	601.	264.66	1.1203E-01	
KR-85	293.	514.00	1.7633E+01	
SR-85	293.	514.01	7.9706E-02	
Y-88	3.	1836.06	2.2817E-02	
Y-90	4.	1760.70	8.5689E-02	
Y-91	8.	1204.67	8.5879E+00	
NB-94	22.	871.09	3.2515E-02	
NB-95	30.	765.78	3.3974E-02	
ZR-95	28.	756.73	5.9527E-02	
RU-103	357.	497.08	9.0236E-02	
RURH-106	116.	621.93	1.1339E+00	
AG-108m	47.	722.94	4.4951E-02	
CD-109	1501.	88.03	2.9743E+00	
AG-110M	238.	657.76	8.9214E-02	
SN-113	468.	391.69	1.1908E-01	
TE-123m	1087.	159.00	7.3779E-02	
SB-124	151.	602.73	6.4031E-02	
SB-125	559.	427.89	3.0543E-01	
TE-125m	1419.	109.27	2.7917E+01	
I-129	885.	39.60	0.0000E+00	
I-131	510.	364.48	9.3114E-02	
XE-131m	990.	163.93	3.0563E+00	
BA-133	479.	356.02	1.1597E-01	
CS-134	130.	604.70	5.9647E-02	
CS-136	29.	818.51	3.5767E-02	
CS-138	5.	1435.86	4.9707E-02	
CE-139	973.	165.85	7.4621E-02	
BA-140	229.	537.31	2.8826E-01	
LA-140	9.	1596.21	3.7009E-02	
CE-141	1143.	145.44	1.2933E-01	
CE-144	1214.	133.51	5.8277E-01	
CEPR-144	1214.	133.51	1.1645E+00	
EU-152	9.	1408.01	1.5249E-01	
EU-154	26.	1274.51	1.4329E-01	—
EU-155	1494.	86.54	3.3623E-01	—
HF-181	444.	482.18	1.1081E-01	
TA-182	1271.	67.75	4.2946E-01	
HG-203	616.	279.20	8.4331E-02	
BI-207	151.	569.70	6.1190E-02	

WHC-SD-WM-DP-154, REV.0

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	611.	277.36	1.0795E+00
PB-210	907.	46.50	0.0000E+00
BI-212	37.	727.18	5.4624E-01
PB-212	744.	238.63	1.5565E-01
BI-214	157.	609.31	1.4360E-01
PB-214	464.	351.92	3.5006E-01
RA-224	742.	240.99	1.7253E+00
RA-226	1029.	186.10	1.8712E+00
AC-228	28.	911.21	1.4262E-01
TH-228	1451.	84.37	8.9817E+00
TH-229	1469.	88.47	4.2650E-01
U-232	1115.	57.78	1.5041E+02
PA-233	517.	312.17	1.7649E-01
PA-234M	14.	1001.03	1.4712E+00
TH-234	1212.	63.29	4.7811E+00
U-235	1037.	185.71	1.1419E-01
NP-237	1494.	86.48	8.9054E-01
U-237	1163.	59.54	7.7736E-01
NP-238	21.	984.45	1.2742E-01
NP-239	1348.	106.12	3.4679E-01
PU-239	1203.	129.30	1.0127E+03
AM-241	1163.	59.54	7.4563E-01
AM-243	1378.	74.67	2.3784E-01

DATA NOT USED IN PACKAGE

****
* 222-S Laboratory Counting Room 2-JUN-1995 21:42:02.80 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T763-SAM
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D. H. Gribbin
date: 6-2-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2053.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:06.41 sec

Verified by: Bachelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 2-JUN-1995 20:51:21.18
Decayed to: 2-JUN-1995 20:51:21.18
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.96*	38761	1.53	1323.93	1315	18	1.1		CS-137	53.8
0	1274.66	27	0.62	2549.44	2540	15	38.5		NA-22	5.669E-02

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

Sample ID : S95T763-SAM Acquisition date : 2-JUN-1995 20:51:21

Total number of lines in spectrum 2
Number of unidentified lines 0
Number of lines tentatively identified by NID 2 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~5.669E-02~~	~~5.669E-02~~	~~2.182E-02~~	~~38.49~~	~~K~~
CS-137	30.00Y	1.000	5.379E+01	5.379E+01	0.057E+01	1.05	
	Total Activity :		5.385E+01	5.385E+01			

Grand Total Activity : 5.385E+01 5.385E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)	
BE-7	1233.	477.59	1.4241E+00	
NA-24	5.	1368.55	2.3482E-02	
K-40	95.	1460.75	9.9235E-01	
SC-46	23.	1120.55	4.1624E-02	
CR-51	1154.	320.08	1.0280E+00	
MN-54	27.	834.83	3.4760E-02	
CO-56	30.	846.76	3.7161E-02	
CO-57	1898.	122.06	9.7410E-02	
CO-58	23.	810.78	3.1416E-02	
FE-59	17.	1099.25	6.2855E-02	
CO-60	19.	1332.50	4.4208E-02	-
ZN-65	19.	1115.55	7.4187E-02	
SE-75	1326.	264.66	1.6637E-01	
KR-85	698.	514.00	2.7226E+01	
SR-85	698.	514.01	1.2309E-01	
Y-88	1.	1836.06	1.3173E-02	
Y-90	6.	1760.70	1.0676E-01	
Y-91	12.	1204.67	1.0961E+01	
NB-94	26.	871.09	3.5441E-02	
NB-95	32.	765.78	3.5562E-02	
ZR-95	25.	756.73	5.6772E-02	
RU-103	811.	497.08	1.3603E-01	
RURH-106	298.	621.93	1.8174E+00	
AG-108m	35.	722.94	3.8347E-02	
CD-109	1824.	88.03	3.2787E+00	
AG-110M	616.	657.76	1.4355E-01	
SN-113	1166.	391.69	1.8794E-01	
TE-123m	1606.	159.00	8.9665E-02	
SB-124	307.	602.73	9.1213E-02	
SB-125	1341.	427.89	4.7294E-01	
TE-125m	1821.	109.27	3.1632E+01	
I-129	1397.	39.60	0.0000E+00	
I-131	1129.	364.48	1.3852E-01	
XE-131m	1634.	163.93	3.9254E+00	
BA-133	1143.	356.02	1.7915E-01	
CS-134	298.	604.70	9.0256E-02	
CS-136	18.	818.51	2.7843E-02	
CS-138	8.	1435.86	6.6260E-02	
CE-139	1593.	165.85	9.5512E-02	
BA-140	506.	537.31	4.2850E-01	
LA-140	5.	1596.21	2.8692E-02	
CE-141	1740.	145.44	1.5960E-01	
CE-144	1803.	133.51	7.1022E-01	
CEPR-144	1803.	133.51	1.4192E+00	
EU-152	10.	1408.01	1.6068E-01	
EU-154	26.	1274.51	1.4462E-01	-
EU-155	1857.	86.54	3.7480E-01	-
HF-181	1043.	482.18	1.6985E-01	
TA-182	1682.	67.75	4.9408E-01	
HG-203	1240.	279.20	1.1966E-01	
BI-207	317.	569.70	8.8603E-02	

WHC-SD-WM-DP-154, REV.0

DATA NOT USED IN PACKAGE

Sample ID : S95T763-SAM Acquisition date : 2-JUN-1995 20:51:21

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
TL-208	1263.	277.36	1.5519E+00
PB-210	1387.	46.50	0.0000E+00
BI-212	35.	727.18	5.2995E-01
PB-212	1477.	238.63	2.1928E-01
BI-214	332.	609.31	2.0910E-01
PB-214	1197.	351.92	5.6234E-01
RA-224	1488.	240.99	2.4431E+00
RA-226	1830.	186.10	2.4957E+00
AC-228	23.	911.21	1.2907E-01
TH-228	1875.	84.37	1.0210E+01
TH-229	1834.	88.47	4.7659E-01
U-232	1472.	57.78	1.7280E+02
PA-233	1122.	312.17	2.5990E-01
PA-234M	25.	1001.03	1.9765E+00
TH-234	1635.	63.29	5.5526E+00
U-235	1854.	185.71	1.5269E-01
NP-237	1854.	86.48	9.9206E-01
U-237	1532.	59.54	8.9210E-01
NP-238	18.	984.45	1.1853E-01
NP-239	1913.	106.12	4.1325E-01
PU-239	1766.	129.30	1.2269E+03
AM-241	1532.	59.54	8.5572E-01
AM-243	1757.	74.67	2.6857E-01

DATA NOT USED IN PACKAGE

****
* 222-S Laboratory Counting Room 2-JUN-1995 22:43:10.52 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T763-DUP
Sample Size: 1.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by: D. Hamilton
date: 6-2-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2054.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:09.07 sec

Verified by: Machelor 6/5/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 2-JUN-1995 21:52:23.47
Decayed to: 2-JUN-1995 21:52:23.47
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: DM
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
0	661.96*	51209	1.52	1323.94	1315	17	0.9		CS-137	71.1
0	1273.77	39	1.91	2547.65	2540	13	41.6		NA-22	8.150E-02
0	1461.18*	10	1.95	2922.62	2913	18	227.2		K-40	0.214

DATA NOT USED IN PACKAGE

Sample ID : S95T763-DUP Acquisition date : 2-JUN-1995 21:52:23

Total number of lines in spectrum 3
Number of unidentified lines 0
Number of lines tentatively identified by NID 3 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~8.150E-02~~	~~8.150E-02~~	~~3.389E-02~~	~~41.587~~	BKG
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~2.145E-01~~	~~2.145E-01~~	~~4.873E-01~~	~~227.19~~	BKG
CS-137	30.00Y	1.000	7.106E+01	7.106E+01	0.065E+01	0.91	
	Total Activity :		7.136E+01	7.136E+01			
	Grand Total Activity :		7.136E+01	7.136E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1750.	477.59	1.6967E+00
NA-24	7.	1368.55	2.6934E-02
SC-46	22.	1120.55	4.1042E-02
CR-51	1542.	320.08	1.1882E+00
MN-54	31.	834.83	3.7014E-02
CO-56	27.	846.76	3.5241E-02
CO-57	3109.	122.06	1.2468E-01
CO-58	36.	810.78	3.9577E-02
FE-59	18.	1099.25	6.4806E-02
CO-60	16.	1332.50	4.0186E-02
ZN-65	22.	1115.55	7.9869E-02
SE-75	1768.	264.66	1.9207E-01
KR-85	913.	514.00	3.1133E+01
SR-85	913.	514.01	1.4075E-01
Y-88	3.	1836.06	2.2817E-02
Y-90	1.	1760.70	4.4539E-02
Y-91	12.	1204.67	1.0605E+01
NB-94	36.	871.09	4.1558E-02
NB-95	46.	765.78	4.2537E-02
ZR-95	48.	756.73	7.8517E-02
RU-103	1071.	497.08	1.5633E-01
RURH-106	399.	621.93	2.1029E+00
AG-108m	80.	722.94	5.8298E-02
CD-109	3191.	88.03	4.3373E+00
AG-110M	876.	657.76	1.7119E-01
SN-113	1622.	391.69	2.2160E-01
TE-123m	2458.	159.00	1.1092E-01
SB-124	385.	602.73	1.0214E-01
SB-125	1754.	427.89	5.4087E-01
TE-125m	2992.	109.27	4.0540E+01
I-129	2090.	39.60	0.0000E+00
I-131	1515.	364.48	1.6043E-01
XE-131m	2459.	163.93	4.8160E+00
BA-133	1591.	356.02	2.1136E-01
CS-134	375.	604.70	1.0129E-01
CS-136	28.	818.51	3.4874E-02
CS-138	3.	1435.86	4.1791E-02
CE-139	2462.	165.85	1.1871E-01
BA-140	640.	537.31	4.8161E-01
LA-140	7.	1596.21	3.1984E-02
CE-141	2661.	145.44	1.9734E-01
CE-144	2855.	133.51	8.9362E-01
CEPR-144	2855.	133.51	1.7857E+00
EU-152	9.	1408.01	1.5302E-01
EU-154	44.	1274.51	1.8811E-01
EU-155	3166.	86.54	4.8947E-01
HF-181	1439.	482.18	1.9953E-01
TA-182	2708.	67.75	6.2683E-01
HG-203	1769.	279.20	1.4297E-01
BI-207	478.	569.70	1.0882E-01
TL-208	1799.	277.36	1.8524E+00

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	2164.	46.50	0.0000E+00
BI-212	44.	727.18	5.9394E-01
PB-212	2218.	238.63	2.6874E-01
BI-214	404.	609.31	2.3048E-01
PB-214	1554.	351.92	6.4105E-01
RA-224	2102.	240.99	2.9034E+00
RA-226	2683.	186.10	3.0217E+00
AC-228	31.	911.21	1.5208E-01
TH-228	3062.	84.37	1.3046E+01
TH-229	3166.	88.47	6.2619E-01
U-232	2446.	57.78	2.2278E+02
PA-233	1634.	312.17	3.1369E-01
PA-234M	25.	1001.03	1.9874E+00
TH-234	2590.	63.29	6.9887E+00
U-235	2672.	185.71	1.8327E-01
NP-237	3170.	86.48	1.2972E+00
U-237	2525.	59.54	1.1454E+00
NP-238	23.	984.45	1.3550E-01
NP-239	3017.	106.12	5.1888E-01
PU-239	2989.	129.30	1.5963E+03
AM-241	2525.	59.54	1.0987E+00
AM-243	2958.	74.67	3.4846E-01

DATA NOT USED IN PACKAGE

LABCORE Data Entry Template for Worklist# 1542

Analyst: ADP **Instrument:** GEA00 3 **Book #** 121B52

Method: LA-548-121 Rev/Mod D-1

OUT FOR RERUN

Worklist Comment: Use 5 mL sample, if available. Re-run (1). -PPB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@GEA-02 C060-02	SOLID			N/A	uCi/g
		1	STD				@GEA-02 C060-02E	SOLID			N/A	% Ct. Error
		1	STD				@GEA-02 CS13702	SOLID			N/A	uCi/g
		1	STD				@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@GEA-02 C060-02	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 CS13702	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15402	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 EU15502	SOLID			N/A	uCi/g
		2	BLNK-PREP				@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 C060-02	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 C060-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	3	SAMPLE	S95T000760	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g

Data Entry Comments:

DATA NOT USED IN PA[illegible]

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1542

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000760	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	4 DUP	S95T000760	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CO60-02	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CO60-02E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CS13702	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 CS13702E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15402	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15402E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15502	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 EU15502E	SOLID	N/A			% Ct. Error
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 AM24102	SOLID	N/A			uCi/g
95000057	BX-109	5 SAMPLE	S95T000763	0	F	@GEA-02 AM24102E	SOLID	N/A			% Ct. Error

Data Entry Comments:

DATA NOT USED

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1542

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 CO60-02	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 CO60-02E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 CS13702	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 CS13702E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 EU15402	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 EU15402E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 EU15502	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 EU15502E	SOLID			N/A	% Ct. Error
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 AM24102	SOLID			N/A	uCi/g
95000057	BX-109	6 DUP	S95T000763	0	F	@GEA-02 AM24102E	SOLID			N/A	% Ct. Error

Final page for worklist # 1542

Cathy Pinuta 6-9-95
Analyst Signature **Date**

John LLadd 6/9/95
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

3 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/mL	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/mL	COUNTING ERROR %	AVERAGE µCi/mL	RPD
STANDARD	CO-60		2.11E+01	2.11E-02	1.34			0.00E+00			
Work List	CS-137		2.47E+01	2.47E-02	1.46			0.00E+00			
1542				0.00E+00				0.00E+00			
Test Code				0.00E+00				0.00E+00			
@GEA-02				0.00E+00				0.00E+00			
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
WORKLIST#1542				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
ADP				0.00E+00				0.00E+00			
Date				0.00E+00				0.00E+00			
06/09/96				0.00E+00				0.00E+00			
Time				0.00E+00				0.00E+00			
04:00 AM				0.00E+00				0.00E+00			

REPORT (µCi/mL) = SAMPLE (µCi/L) / 1000mL/L * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

DATA NOT USED IN PACKAGE

Data Entry by: Shawn L. Hall Date: 06/12/95

Approved by: [signature] Date: 6/13/95

Form 548121_1 Rev. 2.3

1052

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.054 < Enter SAMPLE g/L < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
BLANK	CO-60	<	3.83E-03	1.87E-03				ERR			
Work List	CS-137		2.46E-02	1.20E-02	30.62			ERR			
1542	EU-154	<	1.44E-02	7.02E-03				ERR			
Test Code	EU-155	<	1.14E-02	5.53E-03				ERR			
@GEA-02	AM-241	<	3.18E-02	1.55E-02				ERR			
Matrix				0.00E+00				ERR			
SOLID				0.00E+00				ERR			
Sample #				0.00E+00				ERR			
S95T760				0.00E+00				ERR			
				0.00E+00				ERR			
Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
DUP a Digest DF				0.00E+00				ERR			
1				0.00E+00				ERR			
				0.00E+00				ERR			
Instrument Code				0.00E+00				ERR			
WC38931				0.00E+00				ERR			
Analyst				0.00E+00				ERR			
ADP				0.00E+00				ERR			
Date											
06/09/95											
Time											
04:00 AM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

DATA NOT USED IN PACKAGE

Data Entry by: [signature] Date: 06/12/95

Approved by: [signature] Date: 6/13/95

Form 548121_1 Rev. 2.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV. 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.054 < Enter SAMPLE g/L 2.0504 < Enter DUPLICATE g/L

Type	ANALYTE	?	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	?	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
SAMPLE	CO-60	<	9.34E-03	4.55E-03			1.25E-02	6.11E-03	37.88	N/A	NA
Work List	CS-137		1.86E+01	9.07E+00	0.71		1.90E+01	9.28E+00	0.71	9.18E+00	2.2
1542	EU-154		1.05E-01	5.13E-02	35.68		1.33E-01	6.48E-02	31.8	5.80E-02	23.3
Test Code	EU-155	<	1.15E-01	5.59E-02		<	1.16E-01	5.68E-02		< 5.64E-02	NA
@GEA-02	AM-241	<	3.12E-01	1.52E-01		<	3.13E-01	1.52E-01		< 1.52E-01	NA
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
S95T760				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
ADP				0.00E+00				0.00E+00			
Date											
06/09/95											
Time											
04:00 AM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

DATA NOT USED IN PACKAGE

Data Entry by: [signature] Date: 06/12/95

Approved by: [signature] Date: 6/13/95

Form 548121_1 Rev. 2.3

1054

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-154, REV 0

PREPARATION OF SAMPLE MOUNTS FOR GAMMA ENERGY ANALYSIS : LA-548-121 (D-1)

3 < Choose Sample Units: 1=µCi/Sample, 2=µCi/g, 3=µCi/L

4 < Choose Report Units: 1=µCi/L, 2=pCi/L, 3=µCi/mL, 4=µCi/g

2.1732 < Enter SAMPLE g/L 2.1128 < Enter DUPLICATE g/L

Type	ANALYTE	? <	SAMPLE µCi/L	REPORT µCi/g	COUNTING ERROR %	? <	DUPLICATE µCi/L	REPORT µCi/g	COUNTING ERROR %	AVERAGE µCi/g	RPD
SAMPLE	CO-60		1.34E-02	6.17E-03	35.27	<	1.07E-02	5.08E-03		N/A	NA
Work List	CS-137		5.04E+01	2.32E+01	0.43		5.53E+01	2.62E+01	0.41	2.47E+01	12.0
1542	EU-154	<	4.20E-02	1.93E-02			1.21E-01	5.70E-02	34.27	N/A	NA
Test Code	EU-155	<	1.25E-01	5.77E-02		<	1.30E-01	6.17E-02		< 5.97E-02	NA
@GEA-02	AM-241	<	3.58E-01	1.65E-01		<	3.69E-01	1.75E-01		< 1.70E-01	NA
Matrix				0.00E+00				0.00E+00			
SOLID				0.00E+00				0.00E+00			
Sample #				0.00E+00				0.00E+00			
S95T763				0.00E+00				0.00E+00			
Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
DUP's Digest DF				0.00E+00				0.00E+00			
1				0.00E+00				0.00E+00			
Instrument Code				0.00E+00				0.00E+00			
WC38931				0.00E+00				0.00E+00			
Analyst				0.00E+00				0.00E+00			
ADP				0.00E+00				0.00E+00			
Date											
06/09/95											
Time											
04:00 AM											

REPORT (µCi/g) = SAMPLE (µCi/L) / (g/L) * DF

AVERAGE = (SAMPLE + DUPLICATE) / 2

RPD = |(SAMPLE - DUPLICATE)| / AVERAGE * 100

DATA NOT USED IN PACKAGE

Data Entry by: Sharon L Walker Date: 06/12/95

Approved by: [signature] Date: 6/13/95

Form 548121_1 Rev. 2.3

```
********************************************************************************
* 222-S Laboratory Counting Room     9-JUN-1995 06:40:19.44                    *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                WORKLIST1542-STD
Sample Size:              1.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3392.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:09.91 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        9-JUN-1995 05:49:28.36
Decayed to:               9-JUN-1995 05:49:28.36
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  EMB
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by: Em Bracke

date: 6-9-95

Verified by: Machelor 6/12/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
9	26.69*	507	1.11	53.96	51	12	20.6	9.58E+00		
9	28.24*	560	2.11	57.05	51	12	27.8		I-129	0.000E+00
0	563.36	569	1.53	1126.93	1121	13	25.5		CS-134	5.70
0	569.49	861	1.33	1139.18	1134	12	16.7		CS-134	4.73
0	604.82	5763	1.53	1209.82	1202	15	3.7		CS-134	5.27
0	661.77*	21891	1.56	1323.71	1317	14	1.5		CS-137	24.7
0	795.93	3935	1.61	1592.03	1586	13	4.4		CS-134	5.20
0	802.25	427	1.87	1604.67	1599	13	28.8		CS-134	5.55
0	1173.27	13329	1.89	2346.82	2339	17	1.9		CO-60	21.0
0	1332.50	12089	1.98	2665.37	2655	20	1.9		CO-60	21.2
0	1365.30	99	1.95	2731.00	2725	11	26.5			
0	1400.82	60	2.25	2802.06	2797	15	44.8			

DATA NOT USED IN PACKAGE

Total number of lines in spectrum 12
Number of unidentified lines 3
Number of lines tentatively identified by NID 9 75.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.109E+01	2.109E+01	0.028E+01	1.34	
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	BMS
CS-134	2.06Y	1.000	5.230E+00	5.230E+00	0.145E+00	2.78	
CS-137	30.00Y	1.000	2.474E+01	2.474E+01	0.036E+01	1.46	
	Total Activity :		5.106E+01	5.106E+01			

Grand Total Activity : 5.106E+01 5.106E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	1278.	477.59	1.1778E+00
NA-22	90.	1274.53	7.4435E-02
NA-24	60.	1368.55	6.5405E-02
K-40	161.	1460.75	1.0395E+00
SC-46	449.	1120.55	1.4924E-01
CR-51	1347.	320.08	9.1002E-01
MN-54	662.	834.83	1.4063E-01
CO-56	632.	846.76	1.3924E-01
CO-57	1486.	122.06	6.6712E-02
CO-58	596.	810.78	1.3084E-01
FE-59	651.	1099.25	3.1290E-01
ZN-65	552.	1115.55	3.2516E-01
SE-75	1525.	264.66	1.4503E-01
KR-85	945.	514.00	2.5608E+01
SR-85	945.	514.01	1.1578E-01
Y-88	16.	1836.06	4.1908E-02
Y-90	16.	1760.70	1.4303E-01
Y-91	188.	1204.67	3.4198E+01
NB-94	692.	871.09	1.4929E-01
NB-95	581.	765.78	1.2270E-01
ZR-95	573.	756.73	2.2065E-01
RU-103	979.	497.08	1.2104E-01
RURH-106	645.	621.93	2.1755E+00
AG-108m	515.	722.94	1.2071E-01
CD-109	1269.	88.03	2.0416E+00
AG-110M	862.	657.76	1.3830E-01
SN-113	1333.	391.69	1.6602E-01
TE-123m	1507.	159.00	6.9120E-02
SB-124	4199.	602.73	2.7427E-01
SB-125	1392.	427.89	3.9595E-01
TE-125m	1328.	109.27	2.0531E+01
I-131	1321.	364.48	1.2353E-01
XE-131m	1480.	163.93	2.9789E+00
BA-133	1366.	356.02	1.6132E-01
CS-136	628.	818.51	1.3525E-01
CS-138	16.	1435.86	7.3780E-02
CE-139	1506.	165.85	7.4093E-02
BA-140	812.	537.31	4.3850E-01
LA-140	18.	1596.21	4.1627E-02
CE-141	1555.	145.44	1.1919E-01
CE-144	1549.	133.51	5.1559E-01
CEPR-144	1549.	133.51	1.0303E+00
EU-152	29.	1408.01	2.1777E-01
EU-154	90.	1274.51	2.1659E-01
EU-155	1253.	86.54	2.3004E-01
HF-181	1102.	482.18	1.4167E-01
TA-182	1140.	67.75	3.2959E-01
HG-203	1455.	279.20	1.0566E-01
BI-207	1681.	569.70	1.6531E-01
TL-208	1466.	277.36	1.3623E+00
PB-210	1161.	46.50	0.0000E+00

DATA NOT USED PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-212	531.	727.18	1.6831E+00
PB-212	1785.	238.63	1.9516E-01
BI-214	713.	609.31	2.4902E-01
PB-214	1331.	351.92	4.8853E-01
RA-224	1726.	240.99	2.1306E+00
RA-226	1689.	186.10	1.9242E+00
AC-228	828.	911.21	6.3729E-01
TH-228	1235.	84.37	6.2024E+00
TH-229	1270.	88.47	2.9600E-01
U-232	1204.	57.78	1.6240E+02
PA-233	1407.	312.17	2.3820E-01
PA-234M	660.	1001.03	8.2669E+00
TH-234	1160.	63.29	4.0494E+00
U-235	1677.	185.71	1.1653E-01
NP-237	1253.	86.48	6.0935E-01
U-237	1200.	59.54	7.5751E-01
NP-238	711.	984.45	6.0778E-01
NP-239	1344.	106.12	2.6208E-01
PU-239	1497.	129.30	8.8126E+02
AM-241	1200.	59.54	7.2659E-01
AM-243	1222.	74.67	1.7235E-01

DATA NOT USED IN PACKAGE

```
* ********************************************************************************
* 222-S Laboratory Counting Room     9-JUN-1995 07:42:53.38                      *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:                WORKLIST1542-BLK
Sample Size:              5.00000E-03 LI
Dilution Factor:          1.00000E+00
Conversion LI to LI:      1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:              GEA3
File Number:              dka300:[spec.GEA3]3g3393.cnf
Geometry:                 42
Description:
Count Time:               0 00:50:00.00 sec
Real Time:                0 00:50:00.50 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:        9-JUN-1995 06:51:53.53
Decayed to:               9-JUN-1995 06:51:53.53
Standard Deviations:      2
Analysis Library:         ENVGEA
Analyst:                  EMB
Background Subtract:      DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:       11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:   15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by:

date: 6-9-95

Verified by:

Machelor 6/12/95

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
10	27.19*	87	2.11	54.96	50	24	47.3	4.57E+00		
10	29.32*	46	2.06	59.22	50	24	106.5		I-129	0.000E+00
0	609.59*	13	1.54	1219.37	1216	8	132.6			
0	661.70*	109	1.60	1323.58	1315	15	30.6		CS-137	2.455E-02
0	1460.95*	16	2.39	2922.39	2913	22	171.2		K-40	5.642E-02

DATA NOT USED IN PACKAGE

Summary of Nuclide Activity
Sample ID : WORKLIST1542-BLK
Acquisition date : 9-JUN-1995 06:51:53

Total number of lines in spectrum 5
Number of unidentified lines 1
Number of lines tentatively identified by NID 4 80.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~5.642E-02~~	~~5.642E-02~~	~~9.660E-02~~	~~171.21~~	
~~I-129~~	~~5.73E+07D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	0.00	BKG
CS-137	30.00Y	1.000	2.455E-02	2.455E-02	0.752E-02	30.62	high uncert.
	Total Activity :		8.097E-02	8.097E-02			

Grand Total Activity : 8.097E-02 8.097E-02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	28.	477.59	3.4967E-02
NA-22	10.	1274.53	4.9642E-03
NA-24	6.	1368.55	4.1483E-03
SC-46	24.	1120.55	6.8377E-03
CR-51	49.	320.08	3.4652E-02
MN-54	17.	834.83	4.5217E-03
CO-56	24.	846.76	5.4608E-03
CO-57	71.	122.06	2.9184E-03
CO-58	13.	810.78	3.8594E-03
FE-59	12.	1099.25	8.5270E-03
CO-60	6.	1332.50	3.8333E-03
ZN-65	10.	1115.55	8.8079E-03
SE-75	57.	264.66	5.6012E-03
KR-85	62.	514.00	1.3085E+00
SR-85	61.	514.01	5.9054E-03
Y-88	4.	1836.06	4.1968E-03
Y-90	2.	1760.70	1.0181E-02
Y-91	12.	1204.67	1.7189E+00
NB-94	15.	871.09	4.4091E-03
NB-95	31.	765.78	5.6404E-03
ZR-95	23.	756.73	8.7536E-03
RU-103	34.	497.08	4.4919E-03
RURH-106	37.	621.93	1.0367E-01
AG-108m	13.	722.94	3.9067E-03
CD-109	77.	88.03	1.0038E-01
AG-110M	24.	657.76	4.5755E-03
SN-113	36.	391.69	5.4655E-03
TE-123m	89.	159.00	3.3512E-03
SB-124	28.	602.73	4.4925E-03
SB-125	40.	427.89	1.3365E-02
TE-125m	81.	109.27	1.0117E+00
I-131	40.	364.48	4.2817E-03
XE-131m	101.	163.93	1.5533E-01
BA-133	47.	356.02	5.9950E-03
CS-134	33.	604.70	4.8616E-03
CS-136	18.	818.51	4.5823E-03
CS-138	5.	1435.86	8.4333E-03
CE-139	80.	165.85	3.4134E-03
BA-140	19.	537.31	1.3553E-02
LA-140	7.	1596.21	5.2215E-03
CE-141	82.	145.44	5.4629E-03
CE-144	91.	133.51	2.4965E-02
CEPR-144	91.	133.51	4.9897E-02
EU-152	8.	1408.01	2.3007E-02
EU-154	10.	1274.51	1.4423E-02
EU-155	76.	86.54	1.1363E-02
HF-181	42.	482.18	5.5274E-03
TA-182	68.	67.75	1.6056E-02
HG-203	69.	279.20	4.6015E-03
BI-207	29.	569.70	4.3110E-03
TL-208	68.	277.36	5.8701E-02

DATA NOT USED IN PACKAGE

Sample ID : WORKLIST1542-BLK Acquisition date : 9-JUN-1995 06:51:53

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-210	39.	46.50	0.0000E+00
BI-212	20.	727.18	6.4663E-02
PB-212	102.	238.63	9.3173E-03
BI-214	50.	609.31	1.3212E-02
PB-214	75.	351.92	2.3166E-02
RA-224	82.	240.99	9.2910E-02
RA-226	102.	186.10	9.4556E-02
AC-228	26.	911.21	2.2718E-02
TH-228	65.	84.37	2.8551E-01
TH-229	76.	88.47	1.4488E-02
U-232	51.	57.78	6.7023E+00
PA-233	57.	312.17	9.5860E-03
PA-234M	14.	1001.03	2.3609E-01
TH-234	68.	63.29	1.9636E-01
U-235	99.	185.71	5.6590E-03
NP-237	76.	86.48	3.0082E-02
U-237	57.	59.54	3.3141E-02
NP-238	16.	984.45	1.8447E-02
NP-239	84.	106.12	1.3121E-02
PU-239	95.	129.30	4.4446E+01
AM-241	57.	59.54	3.1788E-02
AM-243	82.	74.67	8.9548E-03

DATA NOT USED IN PACKAGE

****
* 222-S Laboratory Counting Room 9-JUN-1995 08:40:30.48 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID: S95T760-SAMPLE
Sample Size: 5.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

date: 6-9-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3394.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:16.59 sec

Verified by: Machelor 6/12/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time: 9-JUN-1995 07:49:30.66
Decayed to: 9-JUN-1995 07:49:30.66
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: MCB
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20
****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
6	26.73*	2088	1.17	54.05	51	10	9.3	1.16E+02		
6	28.21*	622	0.89	57.00	51	10	27.1		I-129	0.000E+00
0	123.17	429	1.15	246.82	245	6	59.6		CO-57	3.190E-02
									EU-154	6.760E-02
0	661.75*	82461	1.55	1323.68	1315	17	0.7		CS-137	18.6
0	722.84	87	1.05	1445.85	1441	11	48.0		EU-154	9.061E-02
0	872.73	74	1.66	1745.63	1737	15	50.2		EU-154	0.149
0	1001.34	165	9.87	2002.88	1985	35	33.5			
0	1173.06	34	1.39	2346.38	2342	12	67.1			
0	1274.18	97	2.36	2548.69	2540	18	27.0		EU-154	9.489E-02
									NA-22	3.266E-02

DATA NOT USED IN PACKAGE

Total number of lines in spectrum 9
Number of unidentified lines 1
Number of lines tentatively identified by NID 8 88.89%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~3.266E-02~~	~~3.266E-02~~	~~0.882E-02~~	~~27.01~~	ISV EM
~~CO-57~~	271.80D	1.000	~~3.190E-02~~	~~3.190E-02~~	1.902E-02	~~59.63~~	
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	0.00	BKG
CS-137	30.00Y	1.000	1.864E+01	1.864E+01	0.013E+01	0.71	
EU-154	8.59Y	1.000	1.053E-01	1.053E-01	0.376E-01	35.68	
	Total Activity :		1.881E+01	1.881E+01			
Grand Total Activity :			1.881E+01	1.881E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2603.	477.59	3.3617E-01
NA-24	11.	1368.55	5.5707E-03
K-40	130.	1460.75	1.8655E-01
SC-46	45.	1120.55	9.4015E-03
CR-51	2542.	320.08	2.4997E-01
MN-54	59.	834.83	8.3885E-03
CO-56	69.	846.76	9.2162E-03
CO-58	91.	810.78	1.0235E-02
FE-59	39.	1099.25	1.5228E-02
CO-60	33.	1332.50	9.3357E-03
ZN-65	29.	1115.55	1.5012E-02
SE-75	3198.	264.66	4.2006E-02
KR-85	1491.	514.00	6.4320E+00
SR-85	1490.	514.01	2.9075E-02
Y-88	2.	1836.06	2.9507E-03
Y-90	8.	1760.70	2.0228E-02
Y-91	20.	1204.67	2.2177E+00
NB-94	92.	871.09	1.0894E-02
NB-95	94.	765.78	9.8847E-03
ZR-95	106.	756.73	1.8954E-02
RU-103	1708.	497.08	3.1971E-02
RURH-106	557.	621.93	4.0443E-01
AG-108m	172.	722.94	1.3958E-02
CD-109	7743.	88.03	1.0085E+00
AG-110M	1385.	657.76	3.5065E-02
SN-113	2613.	391.69	4.6482E-02
TE-123m	5298.	159.00	2.5919E-02
SB-124	614.	602.73	2.0978E-02
SB-125	2824.	427.89	1.1281E-01
TE-125m	7290.	109.27	9.6218E+00
I-131	2471.	364.48	3.3797E-02
XE-131m	5247.	163.93	1.1219E+00
BA-133	2488.	356.02	4.3536E-02
CS-134	625.	604.70	2.1259E-02
CS-136	84.	818.51	9.8742E-03
CS-138	9.	1435.86	1.1231E-02
CE-139	5141.	165.85	2.7379E-02
BA-140	1075.	537.31	1.0094E-01
LA-140	7.	1596.21	5.2699E-03
CE-141	5840.	145.44	4.6203E-02
CE-144	6419.	133.51	2.0991E-01
CEPR-144	6420.	133.51	4.1947E-01
EU-152	14.	1408.01	3.0255E-02
EU-155	7817.	86.54	1.1490E-01
HF-181	2185.	482.18	3.9901E-02
TA-182	6293.	67.75	1.5486E-01
HG-203	2968.	279.20	3.0181E-02
BI-207	611.	569.70	1.9940E-02
TL-208	3070.	277.36	3.9428E-01
PB-210	4121.	46.50	0.0000E+00
BI-212	106.	727.18	1.5010E-01

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
PB-212	3797.	238.63	5.6932E-02
BI-214	611.	609.31	4.6083E-02
PB-214	2530.	351.92	1.3485E-01
RA-224	3773.	240.99	6.3003E-01
RA-226	5282.	186.10	6.8060E-01
AC-228	65.	911.21	3.5845E-02
TH-228	7720.	84.37	3.1013E+00
TH-229	7696.	88.47	1.4573E-01
U-232	5247.	57.78	6.7816E+01
PA-233	2714.	312.17	6.6176E-02
PA-234M	53.	1001.03	4.6898E-01
TH-234	5933.	63.29	1.8313E+00
U-235	5267.	185.71	4.1304E-02
NP-237	7817.	86.48	3.0436E-01
U-237	5519.	59.54	3.2496E-01
NP-238	44.	984.45	3.0340E-02
NP-239	7599.	106.12	1.2465E-01
PU-239	6547.	129.30	3.6864E+02
AM-241	5520.	59.54	3.1170E-01
AM-243	7169.	74.67	8.3496E-02

IN PACKAGE

****
* 222-S Laboratory Counting Room 9-JUN-1995 11:42:03.43 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T760-DUP
Sample Size: 5.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

date: 6-9-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3396.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:16.92 sec

Verified by:

Machelor 6/12/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 9-JUN-1995 10:51:08.23
Decayed to: 9-JUN-1995 10:51:08.23
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: MCB
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
7	26.68*	1937	1.16	53.95	51	12	7.4	1.69E+02		
7	28.18*	1856	1.74	56.94	51	12	14.7		I-129	0.000E+00
0	122.90	492	1.01	246.28	244	7	59.3		CO-57	3.664E-02
									EU-154	7.765E-02
0	661.75*	84138	1.55	1323.68	1315	18	0.7		CS-137	19.0
0	723.70	115	1.62	1447.57	1440	17	52.8		EU-154	0.119
0	1004.40	93	2.24	2008.99	2001	18	39.6		EU-154	0.144
0	1173.63	40	1.76	2347.54	2344	14	61.4		CO-60	1.254E-02
3	1238.47*	20	2.50	2477.25	2472	38	62.2	1.91E+00		
3	1248.96	26	2.51	2498.24	2472	38	56.3			
0	1274.91	85	1.77	2550.15	2543	17	38.2		EU-154	8.337E-02
									NA-22	2.870E-02
0	1332.70	36	2.00	2665.77	2659	16	48.1		CO-60	1.251E-02

Total number of lines in spectrum 11
Number of unidentified lines 2
Number of lines tentatively identified by NID 9 81.82%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~2.870E-02~~	~~2.870E-02~~	~~1.096E-02~~	~~38.19~~	~~154Eu~~
~~CO-57~~	~~271.80D~~	~~1.000~~	~~3.664E-02~~	~~3.664E-02~~	~~2.174E-02~~	~~59.34~~	
CO-60	5.27Y	1.000	1.252E-02	1.252E-02	0.474E-02	37.88	
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	BKG
CS-137	30.00Y	1.000	1.902E+01	1.902E+01	0.013E+01	0.71	
EU-154	8.59Y	1.000	1.328E-01	1.328E-01	0.422E-01	31.80	
	Total Activity :		1.923E+01	1.923E+01			
	Grand Total Activity :		1.923E+01	1.923E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	2717.	477.59	3.4344E-01
NA-24	9.	1368.55	5.0812E-03
K-40	130.	1460.75	1.8661E-01
SC-46	37.	1120.55	8.6185E-03
CR-51	2651.	320.08	2.5532E-01
MN-54	69.	834.83	9.0981E-03
CO-56	59.	846.76	8.5186E-03
CO-58	67.	810.78	8.7624E-03
FE-59	36.	1099.25	1.4716E-02
ZN-65	33.	1115.55	1.5945E-02
SE-75	3318.	264.66	4.2789E-02
KR-85	1500.	514.00	6.4525E+00
SR-85	1499.	514.01	2.9171E-02
Y-88	2.	1836.06	2.9676E-03
Y-90	8.	1760.70	2.0161E-02
Y-91	27.	1204.67	2.6008E+00
NB-94	74.	871.09	9.7448E-03
NB-95	94.	765.78	9.8643E-03
ZR-95	104.	756.73	1.8823E-02
RU-103	1784.	497.08	3.2674E-02
RURH-106	556.	621.93	4.0408E-01
AG-108m	186.	722.94	1.4509E-02
CD-109	7954.	88.03	1.0222E+00
AG-110M	1488.	657.76	3.6345E-02
SN-113	2622.	391.69	4.6556E-02
TE-123m	5267.	159.00	2.5842E-02
SB-124	651.	602.73	2.1591E-02
SB-125	2943.	427.89	1.1515E-01
TE-125m	7517.	109.27	9.7708E+00
I-131	2577.	364.48	3.4509E-02
XE-131m	5262.	163.93	1.1235E+00
BA-133	2663.	356.02	4.5044E-02
CS-134	586.	604.70	2.0586E-02
CS-136	88.	818.51	1.0112E-02
CS-138	8.	1435.86	1.0580E-02
CE-139	5249.	165.85	2.7667E-02
BA-140	1072.	537.31	1.0082E-01
LA-140	12.	1596.21	6.7103E-03
CE-141	6063.	145.44	4.7078E-02
CE-144	6520.	133.51	2.1154E-01
CEPR-144	6519.	133.51	4.2269E-01
EU-152	21.	1408.01	3.7569E-02
EU-155	8027.	86.54	1.1644E-01
HF-181	2245.	482.18	4.0448E-02
TA-182	6635.	67.75	1.5901E-01
HG-203	2951.	279.20	3.0093E-02
BI-207	680.	569.70	2.1023E-02
TL-208	2991.	277.36	3.8920E-01
PB-210	4176.	46.50	0.0000E+00
BI-212	109.	727.18	1.5249E-01
PB-212	3872.	238.63	5.7486E-02

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-214	609.	609.31	4.6023E-02
PB-214	2547.	351.92	1.3529E-01
RA-224	3831.	240.99	6.3491E-01
RA-226	5327.	186.10	6.8350E-01
AC-228	71.	911.21	3.7311E-02
TH-228	7772.	84.37	3.1118E+00
TH-229	7900.	88.47	1.4765E-01
U-232	5357.	57.78	6.8520E+01
PA-233	2731.	312.17	6.6380E-02
PA-234M	41.	1001.03	4.1484E-01
TH-234	5975.	63.29	1.8378E+00
U-235	5326.	185.71	4.1536E-02
NP-237	8032.	86.48	3.0850E-01
U-237	5550.	59.54	3.2586E-01
NP-238	42.	984.45	2.9627E-02
NP-239	7638.	106.12	1.2497E-01
PU-239	6650.	129.30	3.7152E+02
AM-241	5550.	59.54	3.1257E-01
AM-243	7161.	74.67	8.3447E-02

DATE NOT

****
* 222-S Laboratory Counting Room 9-JUN-1995 12:57:08.91 *
****

>>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<

Sample ID: S95T763-SAMPLE
Sample Size: 5.00000E-03 LI
Dilution Factor: 1.00000E+00
Conversion LI to LI: 1.00000E+00

Removed by:

date: 6-9-95

>>>>>>>>>> COUNT INFORMATION <<<<<<<<<<

Detector ID: GEA3
File Number: dka300:[spec.GEA3]3g3397.cnf
Geometry: 42
Description:
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:32.33 sec

Verified by:

Machelor 6/12/95

>>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<

Sample Count Time: 9-JUN-1995 12:06:00.23
Decayed to: 9-JUN-1995 12:06:00.23
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: MCB
Background Subtract: DKA300:[SPEC.GEA3]3GBACK

>>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<

Date of last energy calibration: 11-MAR-1994 11:47:01.11
Date of last efficiency calibration: 15-MAR-1994 10:28:40.20

****

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
6	26.75*	3375	1.29	54.08	51	12	6.1	5.11E+02		
6	28.21*	1263	0.89	57.00	51	12	16.3		I-129	0.000E+00
0	123.03	376	1.05	246.55	245	6	78.1		CO-57	2.797E-02
0	661.75*	222870	1.56	1323.67	1315	17	0.4		CS-137	50.4
0	1173.84	53	1.94	2347.94	2342	17	48.6		CO-60	1.667E-02
0	1274.48	72	1.34	2549.29	2543	14	34.1		NA-22	2.427E-02
0	1332.77	34	1.65	2665.91	2659	15	49.6		CO-60	1.173E-02
0	1460.67*	20	1.78	2921.82	2914	18	127.6		K-40	6.915E-02

DATA NOT

Sample ID : S95T763-SAMPLE Acquisition date : 9-JUN-1995 12:06:00

Total number of lines in spectrum 8
Number of unidentified lines 1
Number of lines tentatively identified by NID 7 87.50%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~2.427E-02~~	~~2.427E-02~~	~~0.828E-02~~	~~34.10~~	~~INEW~~
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~6.915E-02~~	~~6.915E-02~~	~~8.822E-02~~	127.58	~~BKG~~
~~CO-57~~	~~271.80D~~	~~1.000~~	~~2.797E-02~~	~~2.797E-02~~	2.185E-02	~~78.13~~	~~INEW~~
CO-60	5.27Y	1.000	1.341E-02	1.341E-02	0.473E-02	35.27	
~~I-129~~	~~5.73E+09D~~	1.000	0.000E+00	0.000E+00	0.000E+00	~~0.00~~	BKG
CS-137	30.00Y	1.000	5.038E+01	5.038E+01	0.022E+01	0.43	
	Total Activity :		5.052E+01	5.052E+01			
	Grand Total Activity :		5.052E+01	5.052E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	6882.	477.59	5.4661E-01
NA-24	13.	1368.55	6.0645E-03
SC-46	46.	1120.55	9.5351E-03
CR-51	5622.	320.08	3.7179E-01
MN-54	76.	834.83	9.5399E-03
CO-56	91.	846.76	1.0592E-02
CO-58	72.	810.78	9.0816E-03
FE-59	35.	1099.25	1.4422E-02
ZN-65	35.	1115.55	1.6479E-02
SE-75	6545.	264.66	6.0096E-02
KR-85	3499.	514.00	9.8544E+00
SR-85	3497.	514.01	4.4550E-02
Y-88	3.	1836.06	3.6345E-03
Y-90	4.	1760.70	1.3531E-02
Y-91	28.	1204.67	2.6473E+00
NB-94	97.	871.09	1.1175E-02
NB-95	93.	765.78	9.8138E-03
ZR-95	134.	756.73	2.1382E-02
RU-103	4284.	497.08	5.0641E-02
RURH-106	1235.	621.93	6.0231E-01
AG-108m	203.	722.94	1.5169E-02
CD-109	9172.	88.03	1.0977E+00
AG-110M	3694.	657.76	5.7258E-02
SN-113	6008.	391.69	7.0479E-02
TE-123m	8036.	159.00	3.1922E-02
SB-124	1279.	602.73	3.0278E-02
SB-125	6924.	427.89	1.7663E-01
TE-125m	8893.	109.27	1.0627E+01
I-131	5801.	364.48	5.1781E-02
XE-131m	7937.	163.93	1.3798E+00
BA-133	5674.	356.02	6.5755E-02
CS-134	1346.	604.70	3.1196E-02
CS-136	86.	818.51	1.0031E-02
CS-138	9.	1435.86	1.1007E-02
CE-139	8065.	165.85	3.4294E-02
BA-140	2525.	537.31	1.5470E-01
LA-140	7.	1596.21	5.3070E-03
CE-141	8588.	145.44	5.6030E-02
CE-144	8875.	133.51	2.4682E-01
CEPR-144	8875.	133.51	4.9317E-01
EU-152	14.	1408.01	3.0161E-02
EU-154	85.	1274.51	4.1953E-02
EU-155	9306.	86.54	1.2537E-01
HF-181	5615.	482.18	6.3968E-02
TA-182	8031.	67.75	1.7495E-01
HG-203	6207.	279.20	4.3640E-02
BI-207	1550.	569.70	3.1751E-02
TL-208	6241.	277.36	5.6216E-01
PB-210	6187.	46.50	0.0000E+00
BI-212	130.	727.18	1.6642E-01
PB-212	7703.	238.63	8.1085E-02

WHC-SD-WM-DP-154, REV.0

DATA NOT USED IN PACKAGE

Sample ID : S95T763-SAMPLE Acquisition date : 9-JUN-1995 12:06:00

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-214	1318.	609.31	6.7698E-02
PB-214	5718.	351.92	2.0325E-01
RA-224	7489.	240.99	8.8766E-01
RA-226	9334.	186.10	9.0472E-01
AC-228	62.	911.21	3.4946E-02
TH-228	9189.	84.37	3.3836E+00
TH-229	9126.	88.47	1.5869E-01
U-232	6916.	57.78	7.7856E+01
PA-233	5888.	312.17	9.7466E-02
PA-234M	60.	1001.03	5.0082E-01
TH-234	7624.	63.29	2.0760E+00
U-235	9256.	185.71	5.4757E-02
NP-237	9316.	86.48	3.3226E-01
U-237	7299.	59.54	3.7370E-01
NP-238	52.	984.45	3.2734E-02
NP-239	9330.	106.12	1.3812E-01
PU-239	8998.	129.30	4.3217E+02
AM-241	7299.	59.54	3.5844E-01
AM-243	8462.	74.67	9.0710E-02

DATA NOT USED IN PACKAGE

```
********************************************************************************
* 222-S Laboratory Counting Room    9-JUN-1995 13:52:40.20                     *
********************************************************************************
      >>>>>>>>>> SAMPLE INFORMATION <<<<<<<<<<
Sample ID:              S95T763-DUP
Sample Size:            5.00000E-03 LI
Dilution Factor:        1.00000E+00
Conversion LI to LI:    1.00000E+00

      >>>>>>>>>> COUNT INFORMATION <<<<<<<<<<
Detector ID:            GEA3
File Number:            dka300:[spec.GEA3]3g3398.cnf
Geometry:               42
Description:
Count Time:             0 00:50:00.00 sec
Real Time:              0 00:50:35.24 sec

      >>>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<<
Sample Count Time:      9-JUN-1995 13:01:26.94
Decayed to:             9-JUN-1995 13:01:26.94
Standard Deviations:    2
Analysis Library:       ENVGEA
Analyst:                MCB
Background Subtract:    DKA300:[SPEC.GEA3]3GBACK

      >>>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<<
 Date of last energy calibration:      11-MAR-1994 11:47:01.11
 Date of last efficiency calibration:  15-MAR-1994 10:28:40.20
********************************************************************************
```

Removed by: A H Johansen date: 6-9-95

Verified by: D Machelor 6/12/95

WHC-SD-WM-DP-154, REV. 0

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/LI
9	26.71*	3356	1.21	54.01	51	11	5.5	3.16E+02		
9	28.38*	2472	1.84	57.35	51	11	13.1		I-129	0.000E+00
0	123.41	495	1.15	247.30	245	6	61.6		CO-57	3.682E-02
									EU-154	7.802E-02
0	661.74*	244413	1.55	1323.65	1315	18	0.4		CS-137	55.3
0	722.93	99	2.18	1446.02	1439	12	52.8		EU-154	0.103
0	1005.60	93	1.79	2011.40	2001	20	44.0		EU-154	0.144
0	1173.73	57	2.26	2347.73	2341	18	44.3			
0	1274.92	58	1.76	2550.18	2543	17	52.6		EU-154	5.724E-02
									NA-22	1.970E-02
0	1460.80*	23	1.64	2922.09	2913	18	127.8		K-40	7.971E-02

DATA NOT USED IN PACKAGE

Sample ID : S95T763-DUP Acquisition date : 9-JUN-1995 13:01:26

Total number of lines in spectrum 9
Number of unidentified lines 1
Number of lines tentatively identified by NID 8 88.89%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/LI	Wtd Mean Decay Corr uCi/LI	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
~~NA-22~~	~~2.60Y~~	~~1.000~~	~~1.970E-02~~	~~1.970E-02~~	~~1.036E-02~~	~~52.59~~	
~~K-40~~	~~1.28E+09Y~~	~~1.000~~	~~7.971E-02~~	~~7.971E-02~~	~~10.19E-02~~	~~127.84~~	BKG
~~CO-57~~	~~271.80D~~	~~1.000~~	~~3.681E-02~~	~~3.682E-02~~	~~2.267E-02~~	~~61.59~~	
~~I-129~~	~~5.73E+09D~~	~~1.000~~	~~0.000E+00~~	~~0.000E+00~~	~~0.000E+00~~	~~0.00~~	
CS-137	30.00Y	1.000	5.525E+01	5.525E+01	0.023E+01	0.41	
EU-154	8.59Y	1.000	1.205E-01	1.205E-01	0.413E-01	34.27	
	Total Activity :		5.551E+01	5.551E+01			
	Grand Total Activity :		5.551E+01	5.551E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

DATA NOT USED IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BE-7	7782.	477.59	5.8125E-01
NA-24	16.	1368.55	6.8760E-03
SC-46	43.	1120.55	9.2870E-03
CR-51	6295.	320.08	3.9341E-01
MN-54	87.	834.83	1.0229E-02
CO-56	94.	846.76	1.0752E-02
CO-58	91.	810.78	1.0235E-02
FE-59	46.	1099.25	1.6628E-02
CO-60	43.	1332.50	1.0728E-02
ZN-65	48.	1115.55	1.9244E-02
SE-75	7114.	264.66	6.2652E-02
KR-85	3887.	514.00	1.0386E+01
SR-85	3886.	514.01	4.6958E-02
Y-88	3.	1836.06	3.6345E-03
Y-90	4.	1760.70	1.4304E-02
Y-91	27.	1204.67	2.5906E+00
NB-94	95.	871.09	1.1045E-02
NB-95	132.	765.78	1.1685E-02
ZR-95	144.	756.73	2.2106E-02
RU-103	4684.	497.08	5.2947E-02
RURH-106	1382.	621.93	6.3701E-01
AG-108m	221.	722.94	1.5826E-02
CD-109	10063.	88.03	1.1497E+00
AG-110M	4054.	657.76	5.9984E-02
SN-113	6594.	391.69	7.3833E-02
TE-123m	8763.	159.00	3.3333E-02
SB-124	1330.	602.73	3.0869E-02
SB-125	7745.	427.89	1.8680E-01
TE-125m	9891.	109.27	1.1208E+01
I-131	6376.	364.48	5.4288E-02
XE-131m	8698.	163.93	1.4445E+00
BA-133	6229.	356.02	6.8896E-02
CS-134	1342.	604.70	3.1154E-02
CS-136	99.	818.51	1.0712E-02
CS-138	11.	1435.86	1.2324E-02
CE-139	8509.	165.85	3.5224E-02
BA-140	2742.	537.31	1.6119E-01
LA-140	12.	1596.21	6.8371E-03
CE-141	9147.	145.44	5.7823E-02
CE-144	9681.	133.51	2.5777E-01
CEPR-144	9680.	133.51	5.1507E-01
EU-152	18.	1408.01	3.4429E-02
EU-155	10070.	86.54	1.3041E-01
HF-181	6113.	482.18	6.6741E-02
TA-182	8677.	67.75	1.8185E-01
HG-203	6807.	279.20	4.5704E-02
BI-207	1696.	569.70	3.3207E-02
TL-208	6820.	277.36	5.8768E-01
PB-210	6768.	46.50	0.0000E+00
BI-212	163.	727.18	1.8653E-01
PB-212	8204.	238.63	8.3679E-02

WHC-SD-WM-DP-154, REV. 0

DATA NOT USED IN PACKAGE

Sample ID : S95T763-DUP Acquisition date : 9-JUN-1995 13:01:26

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/LI)
BI-214	1477.	609.31	7.1664E-02
PB-214	6305.	351.92	2.1354E-01
RA-224	8092.	240.99	9.2273E-01
RA-226	10306.	186.10	9.5069E-01
AC-228	71.	911.21	3.7412E-02
TH-228	9705.	84.37	3.4774E+00
TH-229	10010.	88.47	1.6620E-01
U-232	7553.	57.78	8.1362E+01
PA-233	6377.	312.17	1.0144E-01
PA-234M	42.	1001.03	4.2179E-01
TH-234	8234.	63.29	2.1573E+00
U-235	10204.	185.71	5.7492E-02
NP-237	10068.	86.48	3.4540E-01
U-237	7753.	59.54	3.8515E-01
NP-238	50.	984.45	3.2093E-02
NP-239	10034.	106.12	1.4324E-01
PU-239	9866.	129.30	4.5252E+02
AM-241	7753.	59.54	3.6943E-01
AM-243	9282.	74.67	9.5003E-02

DATA
NOT USED
IN PACKAGE

LABCORE Data Entry Template for Worklist# 1984

Analyst: RAG **Instrument:** AB00 10 **Book #** 51852

Method: LA-220-101 Rev/Mod D-1

Worklist Comment: Determine sample size using Ludlum. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@SR90-01 SR90-01	SOLID			N/A	uCi/g
		1	STD				@SR90-01 SR90-01C	SOLID			N/A	% Recovery
		1	STD				@SR90-01 SR90-01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@SR90-01 SR90-01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@SR90-01 SR90-01C	SOLID			N/A	% Recovery
		2	BLNK-PREP				@SR90-01 SR90-01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@SR90-01 SR90-01	SOLID			N/A	uCi/g
95000057	BX-109	4	SAMPLE	S95T001329	0	F	@SR90-01 SR90-01	SOLID	N/A			uCi/g
95000057	BX-109	4	SAMPLE	S95T001329	0	F	@SR90-01 SR90-01C	SOLID	N/A			% Recovery
95000057	BX-109	4	SAMPLE	S95T001329	0	F	@SR90-01 SR90-01E	SOLID	N/A			% Ct. Error
95000057	BX-109	5	DUP	S95T001329	0	F	@SR90-01 SR90-01	SOLID			N/A	uCi/g
95000057	BX-109	5	DUP	S95T001329	0	F	@SR90-01 SR90-01C	SOLID			N/A	% Recovery
95000057	BX-109	5	DUP	S95T001329	0	F	@SR90-01 SR90-01E	SOLID			N/A	% Ct. Error

Final page for worklist # 1984

Rae Ann Green 8-12-95
Analyst Signature **Date**

Em Bucla 8-12-95
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
RADCHEM ANALYTICAL BATCH AND SUMMARY SHEET
STRONTIUM-SOLIDS LA-220-101 / D-1

TEST CODE:	@SR90-01	SAMPLE POINT:	BX-109
INSTRUMENT:	WB26870	SAMPLE PREP:	FUSION01
ANALYST:	RAG	BATCH ID:	95002009
		ANALYSIS DATE:	August 12, 1995

		UNITS:	µCi/g							
SAMPLE TYPE	SAMPLE NO.	ANALYTE	RESULT #1	DUPLICATE	AVERAGE	RPD%	% REC	DET LIM	%CT ER
STANDARD	WORKLIST#1984	Sr-90	1.17E-03				106.8%	5.73E-06	2.1%
BLANK	S95T001329	Sr-90	4.93E+00					2.15E+00	36.6%
SAMPLE 1	S95T001329	Sr-90	1.80E+02	1.81E+02	1.81E+02	0.5%		2.47E+00	3.6%
DUPLICATE 1	S95T001329	Sr-90						2.33E+00	3.5%
SAMPLE 2					N/A	N/A			
DUPLICATE 1									
STANDARD END									
	STD ID:	STD VOL.:							
STANDARD	51B52	1.000							

NARRATIVE: Analyst Comments:

Chemist Comments:

DETECTION LIMITS ARE ADJUSTED FOR DIFFERENT SAMPLE SIZES.
RESULTS FOR STANDARDS ARE IN µCi/mL

Form Completed By:	SLH	Signature:		Date:	08/16/95
Chemist Approval:	SLF	Signature:		Date:	8/16/95

Revision 1.0

LAB LEADER INFO:	
Method:	LA-220-101
Test Code	@SR90-01
Matrix:	SOLID
Work List #	1984
Batch #	95002009
Prepared By:	SLH
Date Complete:	08/16/95
Time Complete:	10:30
Chemist:	SLF
Analyst:	RAG
Analysis Date:	08/12/95
Detector Number:	10
Instrument Code:	WB26870
Rerun:	0
Sample Prep:	FUSION01
Sample Point:	BX-109
Book Number:	51B52

Sample Type	Sample #
STANDARD	WORKLIST#1984
BLANK	S95T001329
SAMPLE 1	S95T001329
DUPLICATE 1	S95T001329
SAMPLE 2	
DUPLICATE 2	
ST-END	

PRINT

PRESS BUTTON BELOW TO RETRIEVE NEXT STRONTIUM NOTEBOOK OR END INPUT PROGRAM

CONTINUE

PRESS BUTTON BELOW TO CREATE OUTPUT PAGE

OUTPUT PAGE

TECH INFO:

Liquids Standard Run

INPUT	
TOTAL COUNTS	9170
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	1
DILUTION FACTOR	1
DIGEST DILUTION FACTOR	1.0000
SEPARATION TIME	05:10
SEPARATION DATE	08/12/95
TIME OF COUNT	09:15
DATE OF COUNT	08/12/95
CARRIER ADDED in mL	1
GROSS WEIGHT	7.9972
TARE WEIGHT	7.9151
STANDARD VALUE in µCi/L	1.0935

RESULT	
SAMPLE COUNT RATE	9.04E+02
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0821
DELTA TIME (hours)	4.08
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	N/A
DETECTION LEVEL	5.73E-06
Sr-89/90 CONC in µCi/mL	1.17E-03
RELATIVE COUNTING ERROR	2.1%
PERCENT CARRIER RECOVERY	82.1%

Solid-Blank Run:

INPUT	
TOTAL COUNTS	232
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	0.1
DILUTION FACTOR	101
DIGEST FACTOR (g/L)	2.2140
SEPARATION TIME	05:10
SEPARATION DATE	08/12/95
TIME OF COUNT	09:30
DATE OF COUNT	08/12/95
CARRIER ADDED in mL	1
GROSS WEIGHT	7.9854
TARE WEIGHT	7.8856

RESULT	
SAMPLE COUNT RATE	1.02E+01
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0998
DELTA TIME (hours)	4.33
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	N/A
DETECTION LEVEL	2.15E+00
Sr-89/90 CONC in µCi/g	4.93E+00
RELATIVE COUNTING ERROR	36.6%
PERCENT CARRIER RECOVERY	99.8%

Solid-Sample Run 2:

INPUT	
TOTAL COUNTS	
COUNT TIME in MINUTES	
BACKGROUND in cpm	
SAMPLE VOLUME in mL	
DILUTION FACTOR	
DIGEST FACTOR (g/L)	
SEPARATION TIME	
SEPARATION DATE	
TIME OF COUNT	
DATE OF COUNT	
CARRIER ADDED in mL	
GROSS WEIGHT	
TARE WEIGHT	

RESULT	
SAMPLE COUNT RATE	
CRITICAL LEVEL	
NET WEIGHT	
DELTA TIME (hours)	
SR-90 EFFICIENCY FACTOR	
Y-90 EFFICIENCY FACTOR	
RMAX	
DETECTION LEVEL	
Sr-89/90 CONC in µCi/g	
RELATIVE COUNTING ERROR	
PERCENT CARRIER RECOVERY	

Solid-Duplicate Run 2:

INPUT	
TOTAL COUNTS	
COUNT TIME in MINUTES	
BACKGROUND in cpm	
SAMPLE VOLUME in mL	
DILUTION FACTOR	
DIGEST FACTOR (g/L)	
SEPARATION TIME	
SEPARATION DATE	
TIME OF COUNT	
DATE OF COUNT	
CARRIER ADDED in mL	
GROSS WEIGHT	
TARE WEIGHT	

RESULT	
SAMPLE COUNT RATE	
CRITICAL LEVEL	
NET WEIGHT	
DELTA TIME (hours)	
SR-90 EFFICIENCY FACTOR	
Y-90 EFFICIENCY FACTOR	
RMAX	
DETECTION LEVEL	
Sr-89/90 CONC in µCi/g	
RELATIVE COUNTING ERROR	
PERCENT CARRIER RECOVERY	

Solid-Sample Run:

INPUT	
TOTAL COUNTS	3369
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	0.1
DILUTION FACTOR	101
DIGEST FACTOR (g/L)	2.2140
SEPARATION TIME	05:10
SEPARATION DATE	08/12/95
TIME OF COUNT	09:45
DATE OF COUNT	08/12/95
CARRIER ADDED in mL	1
GROSS WEIGHT	8.0433
TARE WEIGHT	7.9569

RESULT	
SAMPLE COUNT RATE	3.24E+02
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0864
DELTA TIME (hours)	4.58
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	N/A
DETECTION LEVEL	2.47E+00
Sr-89/90 CONC in µCi/g	1.80E+02
RELATIVE COUNTING ERROR	3.6%
PERCENT CARRIER RECOVERY	86.4%

Solid-Duplicate Run:

INPUT	
TOTAL COUNTS	3581
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	0.1
DILUTION FACTOR	101
DIGEST FACTOR (g/L)	2.2676
SEPARATION TIME	05:10
SEPARATION DATE	08/12/95
TIME OF COUNT	10:05
DATE OF COUNT	08/12/95
CARRIER ADDED in mL	1
GROSS WEIGHT	8.0313
TARE WEIGHT	7.9422

RESULT	
SAMPLE COUNT RATE	3.45E+02
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0891
DELTA TIME (hours)	4.92
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	N/A
DETECTION LEVEL	2.33E+00
Sr-89/90 CONC in µCi/g	1.81E+02
RELATIVE COUNTING ERROR	3.5%
PERCENT CARRIER RECOVERY	89.1%

Liquids Standard End

INPUT	
TOTAL COUNTS	
COUNT TIME in MINUTES	
BACKGROUND in cpm	
SAMPLE VOLUME in mL	
DILUTION FACTOR	
DIGEST DILUTION FACTOR	
SEPARATION TIME	
SEPARATION DATE	
TIME OF COUNT	
DATE OF COUNT	
CARRIER ADDED in mL	
GROSS WEIGHT	
TARE WEIGHT	
STANDARD VALUE in µCi/L	

RESULT	
SAMPLE COUNT RATE	
CRITICAL LEVEL	
NET WEIGHT	
DELTA TIME (hours)	
SR-90 EFFICIENCY FACTOR	
Y-90 EFFICIENCY FACTOR	
RMAX	
DETECTION LEVEL	
Sr-89/90 CONC in µCi/mL	
RELATIVE COUNTING ERROR	
PERCENT CARRIER RECOVERY	

Form Completed By:	SLH	Signature:	Shyra L Hulett	Date:	16-Aug-95
Chemist Approval:	SLF	Signature:		Date:	8/17/95

Revision 1.0

WHC-SD-WM-DP-154, REV. 0

Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1) LIQUIDS

Type						STANDARD
STANDARD	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA	1.000
Work List	TOTAL COUNTS	(TC)	9170	GROSS WEIGHT	(W2)	7.9972
1984	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.9151
Test Code	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)	0.0821
@SR90-01	SAMPLE VOLUME in mL	(SS)	1.000	DELTA TIME (HOURS)	(DT)	4.08
Matrix	DILUTION FACTOR	(DF)	1			
LIQUID	DIGEST DILUTION FACTOR	DDF	1			
Sample #	SAMPLE COUNT RATE	(Rs)	904.00	SR-90 EFFICIENCY FACTO	(C1)	0.4051
WORKLIST#1984	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
Instrument Code	SEPARATION TIME	(ST)	05:10	Rmax		N/A
WB26870	SEPARATION DATE	(SD)	08/12/95	DETECTION LIMIT	(Ld)	4.44
Analyst	TIME OF COUNT	(TOC)	09:15	Sr-89/90 CONC. in µCi/L =		1.1684E+00
RAG	DATE OF COUNT	(DOC)	08/12/95			
Date						
08/16/95						
Time						
10:30						

Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)

Sr-89/90 CONC in µCi/mL REPLACE RS WITH RMAX IF RS<=LcAND RS>=0 OR REPLACE RS WITH Lc IF RS<0

RS*DF*DDF*1000/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*REC*2220000)

NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))

Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)

Percent Carrier Recovery = (Net Weight / Expected weight) * 100

NOTE: Expected weight = CVA * 0.1

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION =	1.17E-03	µCi/mL
RELATIVE COUNTING ERROR =	2.1%	
PERCENT CARRIER RECOVERY =	82.1%	

DETECTION LEVEL

5.73E-06 µCi/L

Data Entry by:	SLH	Date:	16-Aug-95
Approved by:	SLF	Date:	8/16/95

Form WB Rev. 1.0 220-10n_WB

LA-220-101 / D-1 **Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)**

						BLANK
Type	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA)	1.000
BLANK	TOTAL COUNTS	(TC)	232	GROSS WEIGHT	(W2)	7.9854
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.8856
1984	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)	0.0998
Test Code	SAMPLE VOLUME in mL	(SS)	0.100	DELTA TIME (HOURS)	(DT)	4.33
@SR90-01	DILUTION FACTOR	(DF)	101			
Matrix	DIGEST FACTOR (g/L)	DDF	2.214			
SOLID	SAMPLE COUNT RATE	(Rs)	10.20	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
Sample #	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
S95T001329	SEPARATION TIME	(ST)	05:10	Rmax		N/A
Instrument Code	SEPARATION DATE	(SD)	08/12/95	DETECTION LIMIT	(Ld)	4.44
WB26870	TIME OF COUNT	(TOC)	09:30	Sr-89/90 CONC in µCi/g		4.9337E+00
Analyst	DATE OF COUNT	(DOC)	08/12/95			
RAG						
Date						
08/16/95						
Time						
10:30						

Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)

Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with

RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)

NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))

Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)

Percent Carrier Recovery = (Net Weight / Expected weight) * 100

NOTE: Expected weight = CVA * 0.1

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION	=	4.93E+00	µCi/g
RELATIVE COUNTING ERROR	=	36.6%	
PERCENT CARRIER RECOVERY	=	99.8%	

DETECTION LEVEL
2.15E+00 µCi/g

Data Entry by:	SLH	Date:	16-Aug-95
Approved by:	SLF	Date:	8/16/95

LA-220-101 / D-1 **Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)**

						SAMPLE
Type	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA	1.000
SAMPLE	TOTAL COUNTS	(TC)	3369	GROSS WEIGHT	(W2)	8.0433
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.9569
1984	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)	0.0864
Test Code	SAMPLE VOLUME in mL	(SS)	0.100	DELTA TIME (HOURS)	(DT)	4.58
@SR90-01	DILUTION FACTOR	(DF)	101			
Matrix	DIGEST FACTOR (g/L)	DDF	2.214			
SOLID	SAMPLE COUNT RATE	(Rs)	323.90	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
Sample #	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
S95T001329	SEPARATION TIME	(ST)	05:10	Rmax		N/A
Instrument Code	SEPARATION DATE	(SD)	08/12/95	DETECTION LIMIT	(Ld)	4.44
WB26870	TIME OF COUNT	(TOC)	09:45	Sr-89/90 CONC in µCi/g		1.8048E+02
Analyst	DATE OF COUNT	(DOC)	08/12/95			
RAG						
Date						
08/16/95						
Time						
10:30						

Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)
Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with Lc if RS<0
RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)
NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))
Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)
Percent Carrier Recovery = (Net Weight / Expected weight) * 100
NOTE: Expected weight = CVA * 0.1
Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION =	1.80E+02	µCi/g
RELATIVE COUNTING ERROR =	3.6%	
PERCENT CARRIER RECOVERY =	86.4%	

DETECTION LEVEL
2.47E+00 µCi/g

Data Entry by:	SLH	Date:	16-Aug-95
Approved by:	SLF	Date:	8/16/95

Form WB Rev. 1.0 220-10n_WB Page 1 of 1

LA-220-101 / D-1 **Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)**

							DUPLICATE
Type	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA		1.000
DUPLICATE	TOTAL COUNTS	(TC)	3581	GROSS WEIGHT	(W2)		8.0313
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)		7.9422
1984	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)		0.0891
Test Code	SAMPLE VOLUME in mL	(SS)	0.100	DELTA TIME (HOURS)	(DT)		4.92
@SR90-01	DILUTION FACTOR	(DF)	101				
Matrix	DIGEST FACTOR (g/L)	DDF	2.2676				
SOLID	SAMPLE COUNT RATE	(Rs)	345.10	SR-90 EFFICIENCY FACTOR	(C1)		0.4051
Sample #	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)		0.4503
S95T001329	SEPARATION TIME	(ST)	05:10	Rmax			N/A
Instrument Code	SEPARATION DATE	(SD)	08/12/95	DETECTION LIMIT	(Ld)		4.44
WB26870	TIME OF COUNT	(TOC)	10:05	Sr-89/90 CONC in µCi/g			1.8140E+02
Analyst	DATE OF COUNT	(DOC)	08/12/95				
RAG							
Date	Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)						
08/16/95	Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with Lc if RS<0						
Time	RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)						
10:30	NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))						

Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)
Percent Carrier Recovery = (Net Weight / Expected weight) * 100
NOTE: Expected weight = CVA * 0.1
Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION =	1.81E+02	µCi/g
RELATIVE COUNTING ERROR =	3.5%	
PERCENT CARRIER RECOVERY =	89.1%	

DETECTION LEVEL
2.33E+00 µCi/g

Data Entry by:	SLH	Date:	16-Aug-95
Approved by:	SLF	Date:	8/16/95

LABCORE Data Entry Template for Worklist# 6970

Analyst: S.C.L **Instrument:** AB00 #10 **Book#** 9856

Method: LA-220-101 Rev/Mod D-1 WHC-SD-WM-DP-154, REV. 0

Worklist Comment: Determine sample size using ludlum. new

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	STD				@SR90-01	SOLID		
2	BLNK-PREP				@SR90-01	SOLID		
3	BLNK/BKG				@SR90-01	SOLID		
4	SAMPLE	S95T000769	0	F	@SR90-01	SOLID	95000057	BX-109
	Analytes Requested: SR90-01 , SR90-01C, SR90-01E							
5	DUP	S95T000769	0	F	@SR90-01	SOLID		

Final page for worklist # 6970

Sue C Lo 4-2-96
Analyst Signature **Date**

Sharon Ludlum 4.3.96
Analyst Signature **Date**

Sue Hogan 4/3/96

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 6970

Analyst: scl **Instrument:** AB10 **Book#** _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size using ludlum. new

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	STD		0		@SR90-01 SR90-01	SOLID	1.23E-03	1.15E-3	93.500	% Recovery
1	STD		0		@SR90-01 SR90-01C	SOLID	100	9.08E+01	90.800	% Recovery
1	STD		0		@SR90-01 SR90-01E	SOLID	1.00	2.01E+00	2.010	% Ct. Error
2	BLNK-PREP		0		@SR90-01 SR90-01	SOLID	1	<3.10E-2		uCi/g
2	BLNK-PREP		0		@SR90-01 SR90-01C	SOLID	100	8.87E+01	88.700	% Recovery
2	BLNK-PREP		0		@SR90-01 SR90-01E	SOLID	1.00	7.00E+02	700.000	% Ct. Error
3	BLNK/BKG		0		@SR90-01 SR90-01	SOLID	1	1.04E+00	1.040	uCi/g
4	SAMPLE	S95T000769	0	F	@SR90-01 SR90-01	SOLID	N/A	1.31E+02	5.710e-002	uCi/g
4	SAMPLE	S95T000769	0	F	@SR90-01 SR90-01C	SOLID	N/A	8.03E+01	1.000e-004	% Recovery
4	SAMPLE	S95T000769	0	F	@SR90-01 SR90-01E	SOLID	N/A	6.56E-01	0.000	% Ct. Error
5	DUP	S95T000769	0	F	@SR90-01 SR90-01	SOLID	1.31E+2	1.31E+2	0.000	RPD
5	DUP	S95T000769	0	F	@SR90-01 SR90-01C	SOLID	100	8.82E+01	88.200	% Recovery
5	DUP	S95T000769	0	F	@SR90-01 SR90-01E	SOLID	1.00	6.30E-01	0.630	% Ct. Error

Final page for worklist# 6970

Analyst Signature Date

Analyst Signature Date

Reviewer Signature 4/3/96 Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1) LIQUIDS

						STANDARD
Type	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA)	1.000
STD	TOTAL COUNTS	(TC)	9802	GROSS WEIGHT	(W2)	7.2319
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.1411
6970	BACKGROUND in cpm	(BKG)	10.0	NET WEIGHT	(W3)	0.0908
Test Code	SAMPLE VOLUME in mL	(SS)	1.000	DELTA TIME (HOURS)	(DT)	3.08
@SR90-01	DILUTION FACTOR	(DF)	1			
Matrix	DIGEST DILUTION FACTOR	DDF	1			
LIQUID	SAMPLE COUNT RATE	(Rs)	970.20	SR-90 EFFICIENCY FACTO	(C1)	0.4051
Batch Number	CRITICAL LEVEL	(Lc)	1.91	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
96002676	TIME OF SEPARATION	(ST)	13:35	Rmax		N/A
Rerun	DATE OF SEPARATION	(SD)	04/02/96	DETECTION LIMIT	(Ld)	3.90
0	TIME OF COUNT	(TOC)	16:40	Sr-89/90 CONC. in µCi/L		1.1464E+00
Sample Prep	DATE OF COUNT	(DOC)	04/02/96			
N/A	STANDARD BOOK #		9B56			
Sample #	STANDARD VALUE in µCi/mL		1.2304E-03			
WL6970						
Instrument Code						
WB26870	Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)					
Prepared By	Sr-89/90 CONC in µCi/mL REPLACE RS WITH RMAX IF RS<=LcAND RS>=0 OR REPLACE RS WITH Lc IF RS<0					
SLH	RS*DF*DDF*1000/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*REC*2220000)					
Chemist	NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))					
SLF	Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)					
Analyst	Percent Carrier Recovery = (Net Weight / Expected weight) * 100					
SCL	NOTE: Expected weight = CVA * 0.1					
Date Complete	Detection Levels and Less Than Values are determined from Procedure LA-508-002.					
04/03/96	Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100					
Analysis Date						DETECTION LEVEL
04/02/96	Sr-89/90 CONCENTRATION		1.15E-03	µCi/mL		
Analysis Time						4.61E-06 µCi/L
01:35 PM	RELATIVE COUNTING ERROR		2.0%			
Sample Point						
BX-109	PERCENT CARRIER RECOVERY		90.8%			

Analyst:		SCL	Date:	03-Apr-96
Signature of Chemist:		SLF	Date:	4/3/96

STANDARD.WB1 REV 1.2 22010NML

WORKBOOK PAGE: BLANK2

LA-220-101 / D-1 Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)

						BLNK-PREP
Type	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA)	1.000
BLNK-PREP	TOTAL COUNTS	(TC)	104	GROSS WEIGHT	(W2)	7.2502
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.1615
6970	BACKGROUND in cpm	(BKG)	10.0	NET WEIGHT	(W3)	0.0887
Test Code	SAMPLE VOLUME in mL	(SS)	0.500	DELTA TIME (HOURS)	(DT)	3.25
@SR90-01	DILUTION FACTOR	(DF)	11			
Matrix	DIGEST FACTOR (g/L)	(D g/L	2.0012			
SOLID	SAMPLE COUNT RATE	(Rs)	0.40	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
Batch Number	CRITICAL LEVEL	(Lc)	1.91	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
96002676	TIME OF SEPARATION	(ST)	13:35	Rmax		2.33
Rerun	DATE OF SEPARATION	(SD)	04/02/96	DETECTION LIMIT	(Ld)	3.90
0	TIME OF COUNT	(TOC)	16:50	Sr-89/90 CONC in µCi/g	<	3.0973E-02
Sample Prep	DATE OF COUNT	(DOC)	04/02/96			
N/A						
Sample #						
WL6970						
Instrument Code	Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)					
WB26870	Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with Lc if RS<0					
Prepared By	RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)					
SLH	NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))					
Chemist	Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)					
SLF	Percent Carrier Recovery = (Net Weight / Expected weight) * 100					
Analyst	NOTE: Expected weight = CVA * 0.1					
SCL	Detection Levels and Less Than Values are determined from Procedure LA-508-002.					
Date Complete	Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100					
04/03/96						
Analysis Date						DETECTION LEVEL
04/02/96	Sr-89/90 CONCENTRATION		< 3.10E-02	µCi/g		
Analysis Time	LESS THAN Value was Determined from Rmax.					
01:35 PM	RELATIVE COUNTING ERROR		699.9%			5.18E-02 µCi/g
Sample Point						
BX-109	PERCENT CARRIER RECOVERY		88.7%			

Analyst:		SCL	Date:	03-Apr-96
Signature of Chemist:		SLF	Date:	4/3/96

BLANK.WB1 REV 1.2 22010NML

WORKBOOK PAGE: SAM4

LA-220-101 / D-1 Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)

Type						SAMPLE
SAMPLE	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA)	1.000
Work List	TOTAL COUNTS	(TC)	89500	GROSS WEIGHT	(W2)	7.2596
6970	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.1793
Test Code	BACKGROUND in cpm	(BKG)	10.0	NET WEIGHT	(W3)	0.0803
@SR90-01	SAMPLE VOLUME in mL	(SS)	0.500	DELTA TIME (HOURS)	(DT)	3.42
Matrix	DILUTION FACTOR	(DF)	11			
SOLID	DIGEST FACTOR (g/L)	(D g/L	2.0012			
Batch Number	SAMPLE COUNT RATE	(Rs)	8940.00	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
96002676	CRITICAL LEVEL	(Lc)	1.91	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
Rerun	TIME OF SEPARATION	(ST)	13:35	Rmax		N/A
0	DATE OF SEPARATION	(SD)	04/02/96	DETECTION LIMIT	(Ld)	3.90
Sample Prep	TIME OF COUNT	(TOC)	17:00	Sr-89/90 CONC in µCi/g		1.3083E+02
FUSION01	DATE OF COUNT	(DOC)	04/02/96			
Sample #						
S95T000769						

Instrument Code	Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)
WB26870	Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with Lc if RS<0
Prepared By	RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)
SLH	NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))
Chemist	Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)
SLF	Percent Carrier Recovery = (Net Weight / Expected weight) * 100
Analyst	NOTE: Expected weight = CVA * 0.1
SCL	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Date Complete	Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100
04/03/96	
Analysis Date	
04/02/96	
Analysis Time	
01:35 PM	
Sample Point	
BX-109	

				DETECTION LEVEL
Sr-89/90 CONCENTRATION	1.31E+02	µCi/g		
RELATIVE COUNTING ERROR	0.7%			5.71E-02 µCi/g
PERCENT CARRIER RECOVERY	80.3%			

Analyst:	SCL	Date:	03-Apr-96
Signature of Chemist:	SLF	Date:	4/3/96

SAMPLE.WB1 REV 1.2 22010NML

WORKBOOK PAGE: DUP5

LA-220-101 / D-1 **Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)**

						DUP
Type	DETECTOR NUMBER		10	CARRIER ADDED In mL	(CVA)	1.000
DUP	TOTAL COUNTS	(TC)	97178	GROSS WEIGHT	(W2)	7.3300
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.2418
6970	BACKGROUND in cpm	(BKG)	10.0	NET WEIGHT	(W3)	0.0882
Test Code	SAMPLE VOLUME in mL	(SS)	0.500	DELTA TIME (HOURS)	(DT)	3.58
@SR90-01	DILUTION FACTOR	(DF)	11			
Matrix	DIGEST FACTOR (g/L)	(D g/L	1.9716			
SOLID	SAMPLE COUNT RATE	(Rs)	9707.80	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
Batch Number	CRITICAL LEVEL	(Lc)	1.91	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
96002676	TIME OF SEPARATION	(ST)	13:35	Rmax		N/A
Rerun	DATE OF SEPARATION	(SD)	04/02/96	DETECTION LIMIT	(Ld)	3.90
0	TIME OF COUNT	(TOC)	17:10	Sr-89/90 CONC in µCi/g		1.3104E+02
Sample Prep	DATE OF COUNT	(DOC)	04/02/96			
FUSION01						
Sample #						
S95T000769						
Instrument Code	Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)					
WB26870	Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with Lc if RS<0					
Prepared By	RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)					
SLH	NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))					
Chemist	Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)					
SLF	Percent Carrier Recovery = (Net Weight / Expected weight) * 100					
Analyst	NOTE: Expected weight = CVA * 0.1					
SCL	Detection Levels and Less Than Values are determined from Procedure LA-508-002.					
Date Complete	Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100					
04/03/96						
Analysis Date						DETECTION LEVEL
04/02/96	Sr-89/90 CONCENTRATION		1.31E+02	µCi/g		
Analysis Time						
01:35 PM	RELATIVE COUNTING ERROR		0.6%			5.27E-02 µCi/g
Sample Point						
BX-109	PERCENT CARRIER RECOVERY		88.2%			

Analyst:		SCL	Date:	03-Apr-96
Signature of Chemist:		SLF	Date:	4/3/96

SAMPLE.WB1 REV 1.2 22010NM5

LABCORE Data Entry Template for Worklist# 2154

Analyst: S. C. L **Instrument:** AB00 10 **Book #** 51852

Method: LA-220-101 Rev/Mod D-1 WHC-SD-WM-DP-154, REV. 0

Worklist Comment: Determine sample size using Ludlum. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@SR90-01 SR90-01	SOLID			N/A	uCi/g
		1	STD				@SR90-01 SR90-01C	SOLID			N/A	% Recovery
		1	STD				@SR90-01 SR90-01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@SR90-01 SR90-01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@SR90-01 SR90-01C	SOLID			N/A	% Recovery
		2	BLNK-PREP				@SR90-01 SR90-01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@SR90-01 SR90-01	SOLID			N/A	uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@SR90-01 SR90-01	SOLID	N/A			uCi/g
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@SR90-01 SR90-01C	SOLID	N/A			% Recovery
95000059	BX-109	4	SAMPLE	S95T001471	0	F	@SR90-01 SR90-01E	SOLID	N/A			% Ct. Error
95000059	BX-109	5	DUP	S95T001471	0	F	@SR90-01 SR90-01	SOLID			N/A	uCi/g
95000059	BX-109	5	DUP	S95T001471	0	F	@SR90-01 SR90-01C	SOLID			N/A	% Recovery
95000059	BX-109	5	DUP	S95T001471	0	F	@SR90-01 SR90-01E	SOLID			N/A	% Ct. Error

Final page for worklist # 2154

S. C. Lee 8-31-95
Analyst Signature **Date**

M. G. Brown 9/1/95
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
RADCHEM ANALYTICAL BATCH AND SUMMARY SHEET
STRONTIUM-SOLIDS LA-220-101 / D-1

TEST CODE:	@SR90-01	SAMPLE POINT:	BX-109
INSTRUMENT:	WB26870	SAMPLE PREP:	FUSION01
ANALYST:	SCL	BATCH ID:	95002278
		ANALYSIS DATE:	August 31, 1995

	UNITS:	µCi/g							
SAMPLE TYPE	SAMPLE NO.	ANALYTE	RESULT #1	DUPLICATE	AVERAGE	RPD%	% REC	DET LIM	%CT ER
STANDARD	#2164	Sr-90	1.05E-03				96.0%	6.61E-06	2.4%
BLANK	S95T001471	Sr-90	< 9.64E-02					1.02E-01	172.3%
SAMPLE 1	S95T001471	Sr-90	1.77E+02	1.73E+02	1.75E+02	2.2%		1.00E-01	0.7%
DUPLICATE 1	S95T001471	Sr-90						1.01E-01	0.7%
SAMPLE 2					N/A	N/A			
DUPLICATE 1									
STANDARD END									
	STD ID:	STD VOL.:							
STANDARD	51B52	1.000							

NARRATIVE: Analyst Comments:

Chemist Comments:

DETECTION LIMITS ARE ADJUSTED FOR DIFFERENT SAMPLE SIZES.
RESULTS FOR STANDARDS ARE IN µCi/mL

Form Completed By:	MCB	Signature:		Date:	09/08/95
Chemist Approval:	SLF	Signature:		Date:	9/8/95

Revision 1.0

LAB LEADER INFO:	
Method:	LA-220-101
Test Code	@SR90-01
Matrix:	SOLID
Work List #	2154
Batch #	95002278
Prepared By:	MCB
Date Complete:	09/08/95
Time Complete:	08:00
Chemist:	SLF
Analyst:	SCL
Analysis Date:	08/31/95
Detector Number:	10
Instrument Code:	WB26870
Rerun:	
Sample Prep:	FUSION01
Sample Point:	BX-109
Book Number:	51852

Sample Type	Sample #
STANDARD	#2154
BLANK	S95T001471
SAMPLE 1	S95T001471
DUPLICATE 1	S95T001471
SAMPLE 2	
DUPLICATE 2	
ST-END	

PRINT

1089

PRESS BUTTON BELOW TO RETRIEVE NEXT STRONTIUM NOTEBOOK OR END INPUT PROGRAM

CONTINUE

PRESS BUTTON BELOW TO CREATE OUTPUT PAGE

OUTPUT PAGE

TECH INFO:

Liquids Standard Run

INPUT	
TOTAL COUNTS	7148
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	1
DILUTION FACTOR	1
DIGEST DILUTION FACTOR	1.0000
SEPARATION TIME	10:05
SEPARATION DATE	08/31/95
TIME OF COUNT	11:55
DATE OF COUNT	08/31/95
CARRIER ADDED in mL	1
GROSS WEIGHT	7.0132
TARE WEIGHT	6.9402
STANDARD VALUE in µCi/L	1.09

RESULT	
SAMPLE COUNT RATE	7.02E+02
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0730
DELTA TIME (hours)	1.83
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	N/A
DETECTION LEVEL	6.61E-06
Sr-89/90 CONC in µCi/mL	1.05E-03
RELATIVE COUNTING ERROR	2.4%
PERCENT CARRIER RECOVERY	73.0%

Solid-Blank Run:

INPUT	
TOTAL COUNTS	149
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	0.05
DILUTION FACTOR	1
DIGEST FACTOR (g/L)	1.0436
SEPARATION TIME	10:05
SEPARATION DATE	08/31/95
TIME OF COUNT	12:05
DATE OF COUNT	08/31/95
CARRIER ADDED in mL	1
GROSS WEIGHT	7.9741
TARE WEIGHT	7.9837

RESULT	
SAMPLE COUNT RATE	1.90E+00
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0904
DELTA TIME (hours)	2.00
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	4.19
DETECTION LEVEL	1.02E-01
Sr-89/90 CONC in µCi/g	< 9.64E-02
RELATIVE COUNTING ERROR	172.3%
PERCENT CARRIER RECOVERY	90.4%

Solid-Sample Run 2:

INPUT	
TOTAL COUNTS	
COUNT TIME in MINUTES	
BACKGROUND in cpm	
SAMPLE VOLUME in mL	
DILUTION FACTOR	
DIGEST FACTOR (g/L)	
SEPARATION TIME	
SEPARATION DATE	
TIME OF COUNT	
DATE OF COUNT	
CARRIER ADDED in mL	
GROSS WEIGHT	
TARE WEIGHT	

RESULT	
SAMPLE COUNT RATE	
CRITICAL LEVEL	
NET WEIGHT	
DELTA TIME (hours)	
SR-90 EFFICIENCY FACTOR	
Y-90 EFFICIENCY FACTOR	
RMAX	
DETECTION LEVEL	
Sr-89/90 CONC in µCi/g	
RELATIVE COUNTING ERROR	
PERCENT CARRIER RECOVERY	

Solid-Duplicate Run 2:

INPUT	
TOTAL COUNTS	
COUNT TIME in MINUTES	
BACKGROUND in cpm	
SAMPLE VOLUME in mL	
DILUTION FACTOR	
DIGEST FACTOR (g/L)	
SEPARATION TIME	
SEPARATION DATE	
TIME OF COUNT	
DATE OF COUNT	
CARRIER ADDED in mL	
GROSS WEIGHT	
TARE WEIGHT	

RESULT	
SAMPLE COUNT RATE	
CRITICAL LEVEL	
NET WEIGHT	
DELTA TIME (hours)	
SR-90 EFFICIENCY FACTOR	
Y-90 EFFICIENCY FACTOR	
RMAX	
DETECTION LEVEL	
Sr-89/90 CONC in µCi/g	
RELATIVE COUNTING ERROR	
PERCENT CARRIER RECOVERY	

Solid-Sample Run:

INPUT	
TOTAL COUNTS	78359
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	0.05
DILUTION FACTOR	1
DIGEST FACTOR (g/L)	1.0436
SEPARATION TIME	10:05
SEPARATION DATE	08/31/95
TIME OF COUNT	12:15
DATE OF COUNT	08/31/95
CARRIER ADDED in mL	1
GROSS WEIGHT	7.0418
TARE WEIGHT	6.97

RESULT	
SAMPLE COUNT RATE	7.82E+03
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0918
DELTA TIME (hours)	2.17
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	N/A
DETECTION LEVEL	1.00E-01
Sr-89/90 CONC in µCi/g	1.77E+02
RELATIVE COUNTING ERROR	0.7%
PERCENT CARRIER RECOVERY	91.6%

Solid-Duplicate Run:

INPUT	
TOTAL COUNTS	75851
COUNT TIME in MINUTES	10
BACKGROUND in cpm	13.0
SAMPLE VOLUME in mL	0.05
DILUTION FACTOR	1
DIGEST FACTOR (g/L)	1.0808
SEPARATION TIME	10:05
SEPARATION DATE	08/31/95
TIME OF COUNT	12:25
DATE OF COUNT	08/31/95
CARRIER ADDED in mL	1
GROSS WEIGHT	7.0794
TARE WEIGHT	6.9902

RESULT	
SAMPLE COUNT RATE	7.57E+03
CRITICAL LEVEL	2.17E+00
NET WEIGHT	0.0892
DELTA TIME (hours)	2.33
SR-90 EFFICIENCY FACTOR	0.41
Y-90 EFFICIENCY FACTOR	0.45
RMAX	N/A
DETECTION LEVEL	1.01E-01
Sr-89/90 CONC in µCi/g	1.73E+02
RELATIVE COUNTING ERROR	0.7%
PERCENT CARRIER RECOVERY	89.2%

Liquids Standard End

INPUT	
TOTAL COUNTS	
COUNT TIME in MINUTES	
BACKGROUND in cpm	
SAMPLE VOLUME in mL	
DILUTION FACTOR	
DIGEST DILUTION FACTOR	
SEPARATION TIME	
SEPARATION DATE	
TIME OF COUNT	
DATE OF COUNT	
CARRIER ADDED in mL	
GROSS WEIGHT	
TARE WEIGHT	
STANDARD VALUE in µCi/L	

RESULT	
SAMPLE COUNT RATE	
CRITICAL LEVEL	
NET WEIGHT	
DELTA TIME (hours)	
SR-90 EFFICIENCY FACTOR	
Y-90 EFFICIENCY FACTOR	
RMAX	
DETECTION LEVEL	
Sr-89/90 CONC in µCi/mL	
RELATIVE COUNTING ERROR	
PERCENT CARRIER RECOVERY	

Form Completed By:	MCB	Signature:	Date:	08-Sep-95
Chemist Approval:	SLF	Signature:	Date:	9/8/95

Revision 1.0

WHC-SD-WM-DP-154, REV. 0

Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1) LIQUIDS

						STANDARD
Type	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA)	1.000
STANDARD	TOTAL COUNTS	(TC)	7148	GROSS WEIGHT	(W2)	7.0132
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	6.9402
2154	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)	0.0730
Test Code	SAMPLE VOLUME in mL	(SS)	1.000	DELTA TIME (HOURS)	(DT)	1.83
@SR90-01	DILUTION FACTOR	(DF)	1			
Matrix	DIGEST DILUTION FACTOR	DDF	1			
LIQUID	SAMPLE COUNT RATE	(Rs)	701.80	SR-90 EFFICIENCY FACTO	(C1)	0.4051
Sample #	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
#2154	SEPARATION TIME	(ST)	10:05	Rmax		N/A
Instrument Code	SEPARATION DATE	(SD)	08/31/95	DETECTION LIMIT	(Ld)	4.44
WB26870	TIME OF COUNT	(TOC)	11:55	Sr-89/90 CONC. in µCi/L =		1.0462E+00
Analyst	DATE OF COUNT	(DOC)	08/31/95			
SCL						
Date						
09/08/95						
Time						
06:00						

Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)
Sr-89/90 CONC in µCi/mL REPLACE RS WITH RMAX IF RS<=LcAND RS>=0 OR REPLACE RS WITH Lc IF RS<0
RS*DF*DDF*1000/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*REC*2220000)
NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))
Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)
Percent Carrier Recovery = (Net Weight / Expected weight) * 100
NOTE: Expected weight = CVA * 0.1
Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION =	1.05E-03	µCi/mL
RELATIVE COUNTING ERROR =	2.4%	
PERCENT CARRIER RECOVERY =	73.0%	

DETECTION LEVEL
6.61E-06 µCi/L

Data Entry by:	MCB	Date:	08-Sep-95
Approved by:	SLF	Date:	9/8/95

Form WB Rev. 1.0 220-10n_WB

LA-220-101 / D-1 **Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)**

Type						BLANK
BLANK	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA	1.000
Work Lot	TOTAL COUNTS	(TC)	149	GROSS WEIGHT	(W2)	7.9741
2154	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	7.8837
Test Code	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)	0.0904
@SR90-01	SAMPLE VOLUME in mL	(SS)	0.050	DELTA TIME (HOURS)	(DT)	2.00
Matrix	DILUTION FACTOR	(DF)	1			
SOLID	DIGEST FACTOR (g/L)	DDF	1.0436			
Sample #	SAMPLE COUNT RATE	(Rs)	1.90	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
S95T001471	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
Instrument Code	SEPARATION TIME	(ST)	10:05	Rmax		4.19
WB26870	SEPARATION DATE	(SD)	08/31/95	DETECTION LIMIT	(Ld)	4.44
Analyst	TIME OF COUNT	(TOC)	12:05	Sr-89/90 CONC in µCi/g	<	9.6440E-02
SCL	DATE OF COUNT	(DOC)	08/31/95			
Date						
09/08/95						
Time						
08:00						

Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)
Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with
RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)
NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))
Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)
Percent Carrier Recovery = (Net Weight / Expected weight) * 100
NOTE: Expected weight = CVA * 0.1
Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION =	< 9.64E-02	µCi/g
LESS THAN Value was Determined from Rmax.		
RELATIVE COUNTING ERROR =	172.3%	
PERCENT CARRIER RECOVERY =	90.4%	

DETECTION LEVEL
1.02E-01 µCi/g

Data Entry by:	MCB	Date:	08-Sep-95
Approved by:	SLF	Date:	9/8/95

Form WB Rev. 2.1 220-10n_WB Page 1 of 1

LA-220-101 / D-1 **Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)**

Type						SAMPLE
SAMPLE	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA	1.000
Work List	TOTAL COUNTS	(TC)	78359	GROSS WEIGHT	(W2)	7.0618
2154	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	6.9700
Test Code	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)	0.0918
@SR90-01	SAMPLE VOLUME in mL	(SS)	0.050	DELTA TIME (HOURS)	(DT)	2.17
Matrix	DILUTION FACTOR	(DF)	1			
SOLID	DIGEST FACTOR (g/L)	DDF	1.0436			
Sample #	SAMPLE COUNT RATE	(Rs)	7822.90	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
S95T001471	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
Instrument Code	SEPARATION TIME	(ST)	10:05	Rmax		N/A
WB26870	SEPARATION DATE	(SD)	08/31/95	DETECTION LIMIT	(Ld)	4.44
Analyst	TIME OF COUNT	(TOC)	12:15	Sr-89/90 CONC in µCi/g		1.7705E+02
SCL	DATE OF COUNT	(DOC)	08/31/95			
Date						
09/08/95						
Time						
08:00						

Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)
Sr-89/90 CONC in µCi/g . Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with Lc if RS<0
RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)
NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))
Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)
Percent Carrier Recovery = (Net Weight / Expected weight) * 100
NOTE: Expected weight = CVA * 0.1
Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION =	1.77E+02	µCi/g
RELATIVE COUNTING ERROR =	0.7%	
PERCENT CARRIER RECOVERY =	91.8%	

DETECTION LEVEL
1.00E-01 µCi/g

Data Entry by:	MCB	Date:	08-Sep-95
Approved by:	SLF	Date:	9/8/95

LA-220-101 / D-1 **Sr-89/90 : LA-220-101 (D-1), 102 (E-3), 104 (D-1)**

						DUPLICATE
Type	DETECTOR NUMBER		10	CARRIER ADDED in mL	(CVA	1.000
DUPLICATE	TOTAL COUNTS	(TC)	75851	GROSS WEIGHT	(W2)	7.0794
Work List	COUNT TIME in MINUTES	(CT)	10	TARE WEIGHT	(W1)	6.9902
2154	BACKGROUND in cpm	(BKG)	13.0	NET WEIGHT	(W3)	0.0892
Test Code	SAMPLE VOLUME in mL	(SS)	0.050	DELTA TIME (HOURS)	(DT)	2.33
@SR90-01	DILUTION FACTOR	(DF)	1			
Matrix	DIGEST FACTOR (g/L)	DDF	1.0608			
SOLID	SAMPLE COUNT RATE	(Rs)	7572.10	SR-90 EFFICIENCY FACTOR	(C1)	0.4051
Sample #	CRITICAL LEVEL	(Lc)	2.17	Y-90 EFFICIENCY FACTOR	(C2)	0.4503
S95T001471	SEPARATION TIME	(ST)	10:05	Rmax		N/A
Instrument Code	SEPARATION DATE	(SD)	08/31/95	DETECTION LIMIT	(Ld)	4.44
WB26870	TIME OF COUNT	(TOC)	12:25	Sr-89/90 CONC in µCi/g		1.7318E+02
Analyst	DATE OF COUNT	(DOC)	08/31/95			
SCL						
Date						
09/08/95						
Time						
08:00						

Sample Count Rate (Rs) = (Total Counts (TC) / Count Time (CT)) - Background in cpm (BKG)
Sr-89/90 CONC in µCi/g Replace RS with RMAX if RS<=Lc and RS>=0 or Replace RS with Lc if RS<0
RS*1000*DF/((C1+C2*(1-e to the power of ((-natural log 2)/64.2*DT)))*SS*DDF*REC*2220000)
NOTE: 64.2 = Half Life for Y-90 and Rec. = Fractional Carrier Recovery ((W2-W1) / (CVA * 0.1000))
Relative Counting Error = The Square Root of ((TC + BKG * CT) / (TC - BKG * CT)*1.96)
Percent Carrier Recovery = (Net Weight / Expected weight) * 100
NOTE: Expected weight = CVA * 0.1
Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Delta Time (hours) = ((DOC - SD) * 24) + (TOC - ST) / 100

v RESULTS v

Sr-89/90 CONCENTRATION =	1.73E+02	µCi/g
RELATIVE COUNTING ERROR =	0.7%	
PERCENT CARRIER RECOVERY =	89.2%	

DETECTION LEVEL
1.01E-01 µCi/g

Data Entry by:	MCB	Date:	08-Sep-95
Approved by:	SLF	Date:	9/8/95

LABCORE Data Entry Template for Worklist# 1690

Analyst: DCD **Instrument:** U01 AL10721 **Book #** 126B52/1ml STD
146B38/.100ml SPIKE

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: Uranium --LLF WHC-SD-WM-DP-154, REV. 0

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	LIQUID		7.45 E-2	N/A	ug/mL
		2	BLNK-PREP				U-02	LIQUID		5.56 E-3	N/A	ug/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	U-02	LIQUID	N/A	5.60 E+2		ug/mL
95000059	BX-109	4	DUP	S95T000784	0	D	U-02	LIQUID	5.60 E+2	5.64 E+2	N/A	ug/mL
95000059	BX-109	5	SPK	S95T000784	0	D	U-02	LIQUID		2187 E+1	N/A	ug/mL
95000059	BX-109	6	SAMPLE	S95T000854	0	D	U-02	LIQUID	N/A	1.16 E-1		ug/mL
95000059	BX-109	7	DUP	S95T000854	0	D	U-02	LIQUID	1.16 E-1	1.52 E-1	N/A	ug/mL
95000059	BX-109	8	SPK	S95T000854	0	D	U-02	LIQUID		96.1	N/A	ug/mL

Final page for worklist # 1690

David C Dunham 6-25-95
Analyst Signature **Date**

Analyst Signature 7-5-95 **Date**

Sample Prep for all samples & Duplicates :

10 ml Boildown → 10 ml .5M HNO_3

Sample Size for all samples = 1ml

Sample Prep for Spikes :

10 ml sample + .100 ml spike boildown → 10ml .5M HNO_3

Data Entry Comments:

The sample + Dup For both S95T784 & S95T854 have a digest dilution Factor of 100. DCD 6-23-95

Sample S95T000784 rerun on worklist # 1884. PGH 3/5/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

84-3000-101(9-89)

DON'T SAY IT --- *Write It!*

DATE _____

TO Worklist 1690 FROM _____

Standard 7.45 E-2 µg/mL
Blank 5.56 E-3 µg/mL
784 sample 5.60 E+2 µg/mL
duplicate 5.64 E+2 µg/mL
spike 218 %
854 sample 1.16 E-1
duplicate 1.52 E-1
spike 96.1 %

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

```
Sample ID  STD                          Date/Time  06/25/95/12:46:45
Description  STANDARD                   Cal Y=6.20E+07X-2.75E+02
Ref. Ratio 1.124                        Intensity 3465      (t=  39     us)
Laser Pulses 500                        Conc 7.45E-05 + 2.35E-06 G/L
Lifetime 243 + .889 us                  Dilution Factor 1 mL/mL
R2 .9994
Integrated 60901          FINAL RESULT  7.45E-05 + 2.35E-06 G/L
Range: HIGH
```

```
Sample ID  BLNK-PREP                    Date/Time  06/25/95/12:48:30
Description  BLANK PREP                 Cal Y=1.35E+10X0
Ref. Ratio 1.13                         Intensity 480       (t=  39     us)
Laser Pulses 500                        Conc 5.56E-08 + 2.19E-09 G/L
Lifetime 205 + 4.118 us                 Dilution Factor 1 mL/mL
R2 .9829
Integrated 8835           FINAL RESULT  5.56E-08 + 2.19E-09 G/L
Range: LOW
```

```
Sample ID  S95T000784                   Date/Time  06/25/95/12:50:30
Description  SAMPLE                     Cal Y=6.20E+07X-2.75E+02
Ref. Ratio 1.158                        Intensity 43963     (t=  494    us)
Laser Pulses 500                        Conc 5.60E-03 + 1.83E-04 G/L
Lifetime 243 + .747 us                  Dilution Factor 1 mL/mL
R2 .9996
Integrated 754651         FINAL RESULT  5.60E-03 + 1.83E-04 G/L
Range: HIGH
```

```
Sample ID  S95T000784                   Date/Time  06/25/95/12:53:02
Description  DUPLICATE                  Cal Y=6.20E+07X-2.75E+02
Ref. Ratio 1.148                        Intensity 44327     (t=  494    us)
Laser Pulses 500                        Conc 5.64E-03 + 1.89E-04 G/L
Lifetime 180 + .589 us                  Dilution Factor 1 mL/mL
R2 .9995
Integrated 590845         FINAL RESULT  5.64E-03 + 1.89E-04 G/L
Range: HIGH
```

```
Sample ID  S95T000784                   Date/Time  06/25/95/12:55:22
Description  SPIKE                      Cal Y=6.20E+07X-2.75E+02
Ref. Ratio 1.146                        Intensity 44619     (t=  390    us)
Laser Pulses 500                        Conc 6.71E-03 + 2.18E-04 G/L
Lifetime 179 + .438 us                  Dilution Factor 1 mL/mL
R2 .9997
Integrated 604501         FINAL RESULT  6.71E-03 + 2.18E-04 G/L
Range: HIGH
```

```
Sample ID  S95T000854              Date/Time  06/25/95/13:00:38
Description  SAMPLE                Cal Y=1.35E+10X0
Ref. Ratio 1.14                    Intensity 13093     (t=  39     us)
Laser Pulses 500                   Conc 1.16E-06 + 1.60E-08 G/L
Lifetime 259 + .77 us              Dilution Factor 1 mL/mL
R2 .9996
Integrated 233474          FINAL RESULT  1.16E-06 + 1.60E-08 G/L
Range: LOW
```

```
Sample ID  S95T000854              Date/Time  06/25/95/13:03:37
Description  DUPLICATE             Cal Y=1.35E+10X0
Ref. Ratio 1.144                   Intensity 17199     (t=  39     us)
Laser Pulses 500                   Conc 1.52E-06 + 2.06E-08 G/L
Lifetime 267 + .589 us             Dilution Factor 1 mL/mL
R2 .9998
Integrated 316118          FINAL RESULT  1.52E-06 + 2.06E-08 G/L
Range: LOW
```

```
Sample ID  S95T000854              Date/Time  06/25/95/13:05:24
Description  SPIKE                 Cal Y=6.20E+07X-2.75E+02
Ref. Ratio 1.162                   Intensity 25284     (t=  39     us)
Laser Pulses 500                   Conc 4.90E-04 + 1.53E-05 G/L
Lifetime 253 + .66 us              Dilution Factor 1 mL/mL
R2 .9997
Integrated 440860          FINAL RESULT  4.90E-04 + 1.53E-05 G/L
Range: HIGH
```

LABCORE Data Entry Template for Worklist# 1744

Analyst: RJMcCown **Instrument:** U01 _____ **Book #** 126B52

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: 1 ML SAMPLE SIZE / DILUTE IF NECESSARY / JLS

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	SOLID			N/A	ug/g
		2	BLNK-PREP				U-02	SOLID			N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000760	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	4	DUP	S95T000760	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	5	SPK	S95T000760	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	6	SAMPLE	S95T000763	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	7	DUP	S95T000763	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	8	SPK	S95T000763	0	F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1744

RJMcCown 7/17/95
Analyst Signature Date

[signature] 7-19-95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Background Report

Background for LOW Range — First Time Gate Used (sample) 4
Laser Pulses 500 — Date/Time 07/17/95/02:45:46

Reference		Sample	
Intensity	6647	Intensity	410
Lifetime	308.67 + .79 us		
R2	.99971		
Intercept	7826.94		

Background Report

Background for HIGH Range — First Time Gate Used (sample) 4
Laser Pulses 500 — Date/Time 07/17/95/02:46:46

Reference		Sample	
Intensity	6625	Intensity	6
Lifetime	308.91 + .78 us		
R2	.99973		
Intercept	7919.77		

Standard Report

Standard for HIGH Range - 9.90E-04 G/L
Laser Pulses 500 — Date/Time 07/17/95/02:47:27

Reference		Standard	
Intensity	6833	Intensity	31487
Lifetime	310.81 + 1.5 us	Lifetime	314.25 + .9 us
R2	.99899	R2	.9996
Intercept	8065.6	Intercept	60181.21 + 2.45E+02

Standard Report

Standard for HIGH Range - 4.98E-04 G/L
Laser Pulses 500 — Date/Time 07/17/95/02:48:48

Reference		Standard	
Intensity	6854	Intensity	24783
Lifetime	309.76 + .89 us	Lifetime	316.42 + .86 us
R2	.99965	R2	.9997
Intercept	7993.78	Intercept	29255.67 + 1.71E+02

Standard Report

Standard for LOW Range - 2.48E-06 G/L
Laser Pulses 500 — Date/Time 07/17/95/02:50:00

Reference		Standard	
Intensity	6947	Intensity	8343
Lifetime	309.83 + 1.01 us	Lifetime	321.24 + .84 us
R2	.99955	R2	.9997
Intercept	8013.29	Intercept	10090.97 + 1.00E+02

RJ McCown
7/17/95

BEST AVAILABLE COPY

1099

R2 .9995
Integrated 78585 FINAL RESULT 9.17E-05 + 2.82E-06 G/L
Range: HIGH

RJ McCown 7/17/95
10ML TO 10ML SAMPLE PREP
STD # 126B52

Sample ID 126B52 Date/Time 07/17/95/02:53:39
Description LMCS Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.025 Intensity 4393 (t= 39 us)
Laser Pulses 500 Conc 9.17E-05 + 2.82E-06 G/L
Lifetime 260 + .89 us Dilution Factor 1 mL/mL
R2 .9995
Integrated 78585 FINAL RESULT 9.17E-05 + 2.82E-06 G/L
Range: HIGH

Sample ID PREP BLANK Date/Time 07/17/95/03:05:47
Description BLANK Cal Y=4.07E+09X0
Ref. Ratio 1.036 Intensity 27034 (t= 39 us)
Laser Pulses 500 Conc 8.08E-06 + 8.83E-08 G/L
Lifetime 226 + .436 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 430713 FINAL RESULT 8.08E-06 + 8.83E-08 G/L
Range: LOW

RJM 7/17/95

BEST AVAILABLE COPY

Sample ID PREP BLANK Date/Time 07/17/95/03:09:40
Description BLANK Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.047 Intensity 380 (t= 39 us)
Laser Pulses 500 Conc 1.29E-05 + 4.44E-07 G/L
Lifetime 230 + 2.258 us Dilution Factor 1 mL/mL
R2 .9959
Integrated 5462 FINAL RESULT 1.29E-05 + 4.44E-07 G/L
Range: HIGH

RJM 7/16/95

Sample ID PREP BLANK Date/Time 07/17/95/03:10:21
Description BLANK Cal Y=4.07E+09X0
Ref. Ratio 1.053 Intensity 26882 (t= 39 us)
Laser Pulses 500 Conc 8.05E-06 + 8.81E-08 G/L
Lifetime 227 + .461 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 430576 FINAL RESULT 8.05E-06 + 8.81E-08 G/L
Range: LOW

1ML TO 10ML SAMPLE PREP

Sample ID S95T000760 Date/Time 07/17/95/03:14:16
Description SAMPLE Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.043 Intensity 49300 (t= 286 us)
Laser Pulses 500 Conc 2.88E-03 + 9.05E-05 G/L
Lifetime 235 + .705 us Dilution Factor 1 mL/mL
R2 .9996
Integrated 837130 FINAL RESULT 2.88E-03 + 9.05E-05 G/L
Range: HIGH

1ML TO 10ML SAMPLE PREP

RJM 7/17/95
1ML ~~TO 10ML~~ TO 10ML
~~+ .100ML SPIKE # 146B38~~
SAMPLE PREP ~~TO 10ML~~

Sample ID S95T000760 Date/Time 07/17/95/03:19:05
Description SAMPLE DUPLICATE Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.039 Intensity 49662 (t= 260 us)
Laser Pulses 500 Conc 2.70E-03 + 8.40E-05 G/L
Lifetime 230 + .555 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 835730 FINAL RESULT 2.70E-03 + 8.40E-05 G/L
Range: HIGH

1100

Sample ID S95T000760 Date/Time 07/17/95/03:22:49
Description SAMPLE SPIKE Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.049 Intensity 49440 (t= 338 us)
Laser Pulses 500 Conc 3.41E-03 + 1.04E-04 G/L

R2 .9999
Integrated 859954 FINAL RESULT 3.41E-03 + 1.04E-04 G/L
Range: HIGH

R H McCown 7/17/95

Sample ID S95T000760 Date/Time 07/17/95/03:22:49
Description SAMPLE SPIKE Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.049 Intensity 49440 (t= 338 us)
Laser Pulses 500 Conc 3.41E-03 + 1.04E-04 G/L
Lifetime 244 + .294 us Dilution Factor 1 mL/mL
R2 .9999
Integrated 859954 FINAL RESULT 3.41E-03 + 1.04E-04 G/L
Range: HIGH

1ML + .100 ML SPIKE # 146B38 TO 10ML SAMPLE PREP

Sample ID S95T000763 Date/Time 07/17/95/03:26:28
Description SAMPLE Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.038 Intensity 50358 (t= 273 us)
Laser Pulses 500 Conc 2.54E-03 + 7.82E-05 G/L
Lifetime 258 + .554 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 921590 FINAL RESULT 2.54E-03 + 7.82E-05 G/L
Range: HIGH

1ML TO 10ML SAMPLE PREP

Sample ID S95T000763 Date/Time 07/17/95/03:29:42
Description SAMPLE DUPLICATE Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.036 Intensity 49771 (t= 260 us)
Laser Pulses 500 Conc 2.65E-03 + 8.07E-05 G/L
Lifetime 233 + .222 us Dilution Factor 1 mL/mL
R2 1
Integrated 844413 FINAL RESULT 2.65E-03 + 8.07E-05 G/L
Range: HIGH

1ML TO 10ML SAMPLE PREP

Sample ID S95T000765 Date/Time 07/17/95/03:33:22
Description SAMPLE SPIKE Cal Y=6.08E+07X-3.37E+02
Ref. Ratio 1.047 Intensity 49029 (t= 312 us)
Laser Pulses 500 Conc 3.11E-03 + 9.71E-05 G/L
Lifetime 242 + .651 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 894862 FINAL RESULT 3.11E-03 + 9.71E-05 G/L
Range: HIGH

1ML + .100 ML SPIKE # 146B38 TO 10ML SAMPLE PREP

BEST AVAILABLE COPY

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
STD
Work List
1744
Test Code
U-02
Matrix
LIQUID
Batch Number
174495001696
Rerun
0
Sample Prep
N/A
Sample #
WL1744
Instrument Code
Prepared By
JLS
Chemist
JLS
Analyst
PJM
Date Complete
07/19/95
Analysis Date
07/17/95
Analysis Time
06:00 AM
Sample Point
BX-109

		STANDARD
STANDARD BOOK #		126B52
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
LIFETIME IN MICROSECONDS		260.00
R2 VALUE		0.9995
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	2.82E-06
INSTRUMENT RESULT	(IR)	9.17E-05
DETECTION LEVEL (µg/mL)		3.70E-05
UNCERTAINTY (µg/mL)		2.82E-03
RESULT (µg/mL)		9.17E-02
VALUE OF STANDARD		8.43E-02
%RECOVERY		108.78

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst:	PJM	Date:	19-Jul-95
Signature of Chemist:	JLS	Date:	7/19/95

STANDARD.WB1 REV 1.0 925009ML

1102

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
BLNK-PREP
Work List
1744
Test Code
U-02
Matrix
SOLID
Batch Number
174495001696
Rerun
0
Sample Prep
N/A
Sample #
WL1744
Instrument Code
Prepared By
JLS
Chemist
JLS
Analyst
PJM
Date Complete
07/19/95
Analysis Date
07/17/95
Analysis Time
06:00 AM
Sample Point
BX-109

		BLANK
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	2.0540
LIFETIME IN MICROSECONDS		227.00
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	8.81E-08
INSTRUMENT RESULT	(IR)	8.05E-06
DETECTION LEVEL µg/g		1.80E-01
UNCERTAINTY µg/g		4.29E-01
CONCENTRATION IN SOLUTION (g/L)		8.05E-05
RESULT (µg/g)		3.92E+01

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	PJM	Date:	19-Jul-95
Signature of Chemist:	JLS	Date:	7/19/95

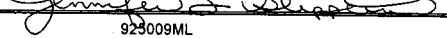
BLANK.WB1 REV 1.0 925009ML

1103

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
SAMPLE			SAMPLE
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1744	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	2.0540
Matrix	LIFETIME IN MICROSECONDS		235.00
SOLID	R2 VALUE		0.9996
Batch Number	RANGE (HIGH OR LOW)		HIGH
174495001696	INSTRUMENT UNCERTAINTY	(IU)	9.05E-05
Rerun	INSTRUMENT RESULT	(IR)	2.88E-03
0	DETECTION LEVEL µg/g		1.80E-01
Sample Prep	UNCERTAINTY µg/g		4.41E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		2.88E-02
Sample #	RESULT (µg/g)		1.40E+04
S95T000760			
Instrument Code			
	Result = Conc. in Solution (g/L) * 1000000 / Dg/L		
Prepared By			
JLS	Uncertainty = IU * DF * PF * 1000000 / Dg/L		
Chemist			
JLS	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
Analyst			
PJM	Concentration in Solution (g/L) = IR * DF * PF		
Date Complete			
07/19/95			
Analysis Date			
07/17/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Analyst:		PJM	Date:	19-Jul-95
Signature of Chemist:		JLS	Date:	7/19/95

SAMPLE.WB1 REV 1.0 923009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type	
DUP	
Work List	
1744	
Test Code	
U-02	
Matrix	
SOLID	
Batch Number	
174495001696	
Rerun	
0	
Sample Prep	
FUSION01	
Sample #	
S95T000760	
Instrument Code	
Prepared By	
JLS	
Chemist	
JLS	
Analyst	
PJM	
Date Complete	
07/19/95	
Analysis Date	
07/17/95	
Analysis Time	
06:00 AM	
Sample Point	
BX-109	

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	2.0504
LIFETIME IN MICROSECONDS		230.00
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	8.40E-05
INSTRUMENT RESULT	(IR)	2.70E-03
DETECTION LEVEL µg/g		1.80E-01
UNCERTAINTY µg/g		4.10E+02
CONCENTRATION IN SOLUTION (g/L)		2.70E-02
RESULT (µg/g)		1.32E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		PJM	Date:	19-Jul-95
Signature of Chemist:		JLS	Date:	7/19/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			SPIKE
SPK	SPIKE BOOK #		146B38
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
1744	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	2.0540
Matrix	LIFETIME IN MICROSECONDS		244.00
SOLID	R2 VALUE		0.9999
Batch Number	RANGE (HIGH OR LOW)		HIGH
174495001696	INSTRUMENT RESULT	(IR)	3.41E-03
Rerun	CONCENTRATION IN SOLUTION (g/L)	(CONC)	3.41E-02
0	SPIKE VALUE	(SV)	5.09E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	2.88E-02
S95T000760	% RECOVERY		1.04E+02
Instrument Code			
Prepared By			
JLS			
Chemist			
JLS			
Analyst			
PJM			
Date Complete			
07/19/95			
Analysis Date			
07/17/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:		PJM	Date:	19-Jul-95
Signature of Chemist:		JLS	Date:	7/19/95

SPIKE.WB1 REV 1.0 SPIKE

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
SAMPLE			SAMPLE
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1744	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	2.1732
Matrix	LIFETIME IN MICROSECONDS		258.00
SOLID	R2 VALUE		0.9998
Batch Number	RANGE (HIGH OR LOW)		HIGH
174495001696	INSTRUMENT UNCERTAINTY	(IU)	7.82E-05
Rerun	INSTRUMENT RESULT	(IR)	2.54E-03
0	DETECTION LEVEL µg/g		1.70E-01
Sample Prep	UNCERTAINTY µg/g		3.60E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		2.54E-02
Sample #	RESULT (µg/g)		1.17E+04
S95T000763			
Instrument Code			
Prepared By			
JLS			
Chemist			
JLS			
Analyst			
PJM			
Date Complete			
07/19/95			
Analysis Date			
07/17/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Result = Conc. In Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration In Solution (g/L) = IR * DF * PF

Analyst:		PJM	Date: 19-Jul-95
Signature of Chemist:		JLS	Date: 7/19/95

SAMPLE.WB1 REV 1.0 926009ML

WORKBOOK PAGE: DUP7

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
DUP			DUP
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1744	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	2.1128
Matrix	LIFETIME IN MICROSECONDS		233.00
SOLID	R2 VALUE		1.0000
Batch Number	RANGE (HIGH OR LOW)		HIGH
174495001696	INSTRUMENT UNCERTAINTY	(IU)	8.07E-05
Rerun	INSTRUMENT RESULT	(IR)	2.65E-03
0	DETECTION LEVEL µg/g		1.75E-01
Sample Prep	UNCERTAINTY µg/g		3.82E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		2.65E-02
Sample #	RESULT (µg/g)		1.25E+04
S95T000763			
Instrument Code			
	Result = Conc. In Solution (g/L) * 1000000 / Dg/L		
Prepared By			
JLS	Uncertainty = IU * DF * PF * 1000000 / Dg/L		
Chemist			
JLS	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
Analyst			
PJM	Concentration In Solution (g/L) = IR * DF * PF		
Date Complete			
07/19/95			
Analysis Date			
07/17/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Analyst:		PJM	Date:	19-Jul-95
Signature of Chemist:		JLS	Date:	7/19/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE8

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			SPIKE
SPK	SPIKE BOOK #		146B38
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
1744	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	2.1732
Matrix	LIFETIME IN MICROSECONDS		242.00
SOLID	R2 VALUE		1.0000
Batch Number	RANGE (HIGH OR LOW)		HIGH
174495001696	INSTRUMENT RESULT	(IR)	3.11E-03
Rerun	CONCENTRATION IN SOLUTION (g/L)	(CONC)	3.11E-02
0	SPIKE VALUE	(SV)	5.09E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	2.54E-02
S95T000763	% RECOVERY		1.12E+02
Instrument Code			
Prepared By			
JLS			
Chemist			
JLS			
Analyst			
PJM			
Date Complete			
07/19/95			
Analysis Date			
07/17/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:		PJM	Date:	19-Jul-95
Signature of Chemist:	Jennifer L. Slaughter	JLS	Date:	7/19/95

SPIKE.WB1 REV 1.0 SPIKE

LABCORE Data Entry Template for Worklist# 1745

Analyst: RS McCown **Instrument:** U01 AL10721 **Book #** 126 B52

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: 1 ML SAMPLE SIZE / DILUTE IF NECESSARY / JLS

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				U-02	SOLID			N/A	ug/g
		2 BLNK-PREP				U-02	SOLID			N/A	ug/g
95000057	BX-109	3 SAMPLE	S95T000766	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	4 DUP	S95T000766	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000766	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	6 SAMPLE	S95T000769	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	7 DUP	S95T000769	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000769	0	F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1745

RS McCown 7/17/95
Analyst Signature Date

CJ Sims 7-26-95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

R.J. McCown
7/17/95

Background Report

Background for LOW Range	First Time Gate Used (sample) 4
Laser Pulses 500	Date/Time 07/17/95/04:48:19

Reference	Sample
Intensity 6815	Intensity 390
Lifetime 302.43 + .84 us	
R2 .99986	
Intercept 8066	

BEST AVAILABLE COPY

Background Report

Background for HIGH Range	First Time Gate Used (sample) 4
Laser Pulses 500	Date/Time 07/17/95/04:49:10

Reference	Sample
Intensity 6830	Intensity 5
Lifetime 301.03 + .66 us	
R2 .9998	
Intercept 8068.62	

Standard Report

Standard for HIGH Range - 9.90E-04 G/L	
Laser Pulses 500	Date/Time 07/17/95/04:49:52

Reference	Standard
Intensity 6951	Intensity 52211
Lifetime 300.78 + .71 us	Lifetime 316.65 + .97 us
R2 .99978	R2 .9997
Intercept 8086.43	Intercept 61361.45 + 2.48E+02

Standard Report

Standard for HIGH Range - 4.98E-04 G/L	
Laser Pulses 500	Date/Time 07/17/95/04:51:30

Reference	Standard
Intensity 6884	Intensity 26436
Lifetime 301.52 + .57 us	Lifetime 315.74 + 1.04 us
R2 .99985	R2 .9995
Intercept 8158.41	Intercept 29708.7 + 1.72E+02

Standard Report

Standard for LOW Range - 2.48E-06 G/L	
Laser Pulses 500	Date/Time 07/17/95/04:52:53

Reference	Standard
Intensity 6876	Intensity 8889
Lifetime 300.77 + .48 us	Lifetime 322.19 + .84 us
R2 .99988	R2 .9997
Intercept 8221.53	Intercept 10345.76 + 1.02E+02

Lifetime 263 + .808 us Dilution Factor 1 mL/mL
R2 .9996
Integrated 81201 FINAL RESULT 9.26E-05 + 2.85E-06 G/L
Range: HIGH

AHM 7/17/95

RJMcCown 7/17/95

Sample ID 126B52 Date/Time 07/17/95/04:56:57
Description LMCS Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.024 Intensity 4446 (t= 39 us)
Laser Pulses 500 Conc 9.26E-05 + 2.85E-06 G/L
Lifetime 263 + .808 us Dilution Factor 1 mL/mL
R2 .9996
Integrated 81201 FINAL RESULT 9.26E-05 + 2.85E-06 G/L
Range: HIGH

10 ML TO 10 ML SAMPLE PREP. STD. # 126B52

BEST AVAILABLE COPY

Sample ID PREP BLANK Date/Time 07/17/95/05:01:37
Description BLANK Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.017 Intensity 428 (t= 39 us)
Laser Pulses 500 Conc 1.56E-05 + 5.30E-07 G/L
Lifetime 234 + 2.195 us Dilution Factor 1 mL/mL
R2 .9962
Integrated 7896 FINAL RESULT 1.56E-05 + 5.30E-07 G/L
Range: HIGH

Sample ID PREP BLANK Date/Time 07/17/95/05:02:18
Description BLANK Cal Y=4.17E+09X0
Ref. Ratio 1.029 Intensity 33643 (t= 39 us)
Laser Pulses 500 Conc 9.98E-06 + 1.09E-07 G/L
Lifetime 237 + .468 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 571262 FINAL RESULT 9.98E-06 + 1.09E-07 G/L
Range: LOW

1 ML TO 10 ML SAMPLE PREP

Sample ID S95T000766 Date/Time 07/17/95/05:05:04
Description SAMPLE Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.039 Intensity 51688 (t= 130 us)
Laser Pulses 500 Conc 1.57E-03 + 4.84E-05 G/L
Lifetime 231 + .531 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 878065 FINAL RESULT 1.57E-03 + 4.84E-05 G/L
Range: HIGH

1 ML TO 10 ML SAMPLE PREP

Sample ID S95T000766 Date/Time 07/17/95/05:09:01
Description SAMPLE DUPLICATE Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.037 Intensity 50010 (t= 182 us)
Laser Pulses 500 Conc 1.79E-03 + 5.52E-05 G/L
Lifetime 247 + .512 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 885090 FINAL RESULT 1.79E-03 + 5.52E-05 G/L
Range: HIGH

1 ML TO 10 ML SAMPLE PREP

Sample ID S95T000766 Date/Time 07/17/95/05:12:08
Description SAMPLE SPIKE Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.043 Intensity 49424 (t= 195 us)
Laser Pulses 500 Conc 2.01E-03 + 6.20E-05 G/L
Lifetime 225 + .444 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 814126 FINAL RESULT 2.01E-03 + 6.20E-05 G/L
Range: HIGH

AHM 7/17/95

1 ML ~~TO 10 ML~~ + .100 ML SPIKE # 146838 SAMPLE PREP TO 10 ML

Lifetime 236 + .601 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 852860 FINAL RESULT 5.58E-03 + 1.76E-04 G/L
Range: HIGH

RJM 7/17/95

RJ McCown 7/17/95

Sample ID S95T000769 Date/Time 07/17/95/05:14:58
Description SAMPLE Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.036 Intensity 50101 (t= 442 us)
Laser Pulses 500 Conc 5.58E-03 + 1.76E-04 G/L
Lifetime 236 + .601 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 852860 FINAL RESULT 5.58E-03 + 1.76E-04 G/L
Range: HIGH

1ML TO 10ML SAMPLE PREP

WHC-SD-WM-DP-154, REV. 0

Sample ID S95T000769 Date/Time 07/17/95/05:18:20
Description SAMPLE DUPLICATE Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.023 Intensity 50623 (t= 442 us)
Laser Pulses 500 Conc 5.58E-03 + 1.77E-04 G/L
Lifetime 237 + .643 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 869267 FINAL RESULT 5.58E-03 + 1.77E-04 G/L
Range: HIGH

1ML TO 10ML SAMPLE PREP

Sample ID S95T000769 Date/Time 07/17/95/05:21:26
Description SAMPLE SPIKE Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.04 Intensity 49791 (t= 455 us)
Laser Pulses 500 Conc 6.28E-03 + 1.97E-04 G/L
Lifetime 228 + .496 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 830893 FINAL RESULT 6.28E-03 + 1.97E-04 G/L
Range: HIGH

RJM 7/17/95

1ML ~~TO 10ML~~ + .100 ML SPIKE # 146838 SAMPLE PREP TO 10 ML

Sample ID S95T000769 Date/Time 07/17/95/05:23:36
Description SAMPLE SPIKE Cal Y=6.20E+07X-3.84E+02
Ref. Ratio 1.049 Intensity 50141 (t= 468 us)
Laser Pulses 500 Conc 6.25E-03 + 1.92E-04 G/L
Lifetime 237 + .25 us Dilution Factor 1 mL/mL
R2 .9999
Integrated 866038 FINAL RESULT 6.25E-03 + 1.92E-04 G/L
Range: HIGH

BEST AVAILABLE COPY

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
STD
Work List
1745
Test Code
U-02
Matrix
LIQUID
Batch Number
174595001697
Rerun
0
Sample Prep
N/A
Sample #
WORKLIST#1745
Instrument Code
U01
Prepared By
slh
Chemist
jls
Analyst
pjm
Date Complete
07/25/95
Analysis Date
07/17/95
Analysis Time
05:23 AM
Sample Point
bx-109

			STANDARD
STANDARD BOOK #			126B52
VOLUME OF SAMPLE (mL)		(SS)	1.00
DILUTION FACTOR OF SAMPLE		(DF)	1.00
PREPARATION FACTOR OF SAMPLE		(PF)	1.00
LIFETIME IN MICROSECONDS			263.00
R2 VALUE			0.9996
RANGE (HIGH OR LOW)			HIGH
INSTRUMENT UNCERTAINTY		(IU)	2.85E-06
INSTRUMENT RESULT		(IR)	9.26E-05
DETECTION LEVEL (µg/mL)			3.70E-05
UNCERTAINTY (µg/mL)			2.85E-03
RESULT (µg/mL)			9.26E-02
VALUE OF STANDARD			8.43E-02
%RECOVERY			109.85

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst:		pjm	Date: 25-Jul-95
Signature of Chemist:		jls	Date: 7/25/95

STANDARD.WB1 REV 1.0 925009ML

1114

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
BLNK-PREP			BLANK
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1745	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	1.8540
Matrix	LIFETIME IN MICROSECONDS		237.00
SOLID	R2 VALUE		0.9998
Batch Number	RANGE (HIGH OR LOW)		LOW
174595001697	INSTRUMENT UNCERTAINTY	(IU)	1.09E-07
Rerun	INSTRUMENT RESULT	(IR)	9.98E-06
0	DETECTION LEVEL µg/g		2.00E-01
Sample Prep	UNCERTAINTY µg/g		5.88E-01
N/A	CONCENTRATION IN SOLUTION (g/L)		9.98E-05
Sample #	RESULT (µg/g)		5.38E+01
BLANK			
Instrument Code			
U01			
Prepared By			
slh			
Chemist			
jls			
Analyst			
pjm			
Date Complete			
07/25/95			
Analysis Date			
07/17/95			
Analysis Time			
05:23 AM			
Sample Point			
bx-109			

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		pjm	Date: 25-Jul-95
Signature of Chemist:		jls	Date: 7/25/95

BLANK.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SAMPLE
Work List
1745
Test Code
U-02
Matrix
SOLID
Batch Number
174595001697
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000766
Instrument Code
U01
Prepared By
slh
Chemist
jls
Analyst
pjm
Date Complete
07/25/95
Analysis Date
07/17/95
Analysis Time
05:23 AM
Sample Point
bx-109

		SAMPLE
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	1.8540
LIFETIME IN MICROSECONDS		231.00
R2 VALUE		1.0000
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	4.84E-05
INSTRUMENT RESULT	(IR)	1.57E-03
DETECTION LEVEL µg/g		2.00E-01
UNCERTAINTY µg/g		2.61E+02
CONCENTRATION IN SOLUTION (g/L)		1.57E-02
RESULT (µg/g)		8.47E+03

Result = Conc. In Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration In Solution (g/L) = IR * DF * PF

Analyst:	pjm	Date:	25-Jul-95
Signature of Chemist:	jls	Date:	7/25/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1745
Test Code
U-02
Matrix
SOLID
Batch Number
174595001697
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000766
Instrument Code
U01
Prepared By
slh
Chemist
jls
Analyst
pjm
Date Complete
07/25/95
Analysis Date
07/17/95
Analysis Time
05:23 AM
Sample Point
bx-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	1.9976
LIFETIME IN MICROSECONDS		247.00
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	5.52E-05
INSTRUMENT RESULT	(IR)	1.79E-03
DETECTION LEVEL µg/g		1.85E-01
UNCERTAINTY µg/g		2.76E+02
CONCENTRATION IN SOLUTION (g/L)		1.79E-02
RESULT (µg/g)		8.96E+03

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		pjm	Date: 25-Jul-95
Signature of Chemist:		jls	Date: 7/25/95

SAMPLE.WB1 REV 1.0 925009ML

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
SPK	SPIKE BOOK #		SPIKE
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	146B38
1745	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	1.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	10.00
Matrix	LIFETIME IN MICROSECONDS		1.8540
SOLID	R2 VALUE		225.00
Batch Number	RANGE (HIGH OR LOW)		0.9998
174595001697	INSTRUMENT RESULT	(IR)	HIGH
Rerun	CONCENTRATION IN SOLUTION (g/L)	(CONC)	2.01E-03
0	SPIKE VALUE	(SV)	2.01E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	5.09E-02
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	0.10
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	1.00
S95T000766	% RECOVERY		1.57E-02
Instrument Code			8.64E+01
U01			
Prepared By			
slh			
Chemist			
jls			
Analyst			
pjm			
Date Complete			
07/25/95			
Analysis Date			
07/17/95			
Analysis Time			
05:23 AM			
Sample Point			
bx-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:		pjm	Date: 25-Jul-95
Signature of Chemist:		jls	Date: 7/25/95

SPIKE.WB1 REV 1.0 SPIKE

WORKBOOK PAGE: SAM6

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SAMPLE
Work List
1745
Test Code
U-02
Matrix
SOLID
Batch Number
174595001697
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000769
Instrument Code
U01
Prepared By
slh
Chemist
jls
Analyst
pjm
Date Complete
07/25/95
Analysis Date
07/17/95
Analysis Time
05:23 AM
Sample Point
bx-109

		SAMPLE
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	2.0012
LIFETIME IN MICROSECONDS		236.00
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	1.76E-04
INSTRUMENT RESULT	(IR)	5.58E-03
DETECTION LEVEL µg/g		1.85E-01
UNCERTAINTY µg/g		8.79E+02
CONCENTRATION IN SOLUTION (g/L)		5.58E-02
RESULT (µg/g)		2.79E+04

Result = Conc. In Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration In Solution (g/L) = IR * DF * PF

Analyst:	pjm	Date:	25-Jul-95
Signature of Chemist:	jls	Date:	7/25/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: DUP7

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1745
Test Code
U-02
Matrix
SOLID
Batch Number
174595001697
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000769
Instrument Code
U01
Prepared By
slh
Chemist
jls
Analyst
pjm
Date Complete
07/25/95
Analysis Date
07/17/95
Analysis Time
05:23 AM
Sample Point
bx-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	1.9716
LIFETIME IN MICROSECONDS		237.00
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	1.77E-04
INSTRUMENT RESULT	(IR)	5.58E-03
DETECTION LEVEL µg/g		1.88E-01
UNCERTAINTY µg/g		8.98E+02
CONCENTRATION IN SOLUTION (g/L)		5.58E-02
RESULT (µg/g)		2.83E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		pjm	Date: 25-Jul-95
Signature of Chemist:		jls	Date: 7/25/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE8

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SPK
Work List
1745
Test Code
U-02
Matrix
SOLID
Batch Number
174595001697
Rerun
0
Sample Prep
FUSION01
Sample Number
S95T000769
Instrument Code
U01
Prepared By
slh
Chemist
jls
Analyst
pjm
Date Complete
07/25/95
Analysis Date
07/17/95
Analysis Time
05:23 AM
Sample Point
bx-109

		SPIKE
SPIKE BOOK #		146B38
VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
DIGEST FACTOR OF SAMPLE	(DDF)	2.0012
LIFETIME IN MICROSECONDS		237.00
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT RESULT	(IR)	6.28E-03
CONCENTRATION IN SOLUTION (g/L)	(CONC)	6.28E-02
SPIKE VALUE	(SV)	5.09E-02
INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	5.58E-02
% RECOVERY		1.38E+02

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:	pjm	Date:	25-Jul-95
Signature of Chemist:	jls	Date:	7/25/95

SPIKE.WB1 REV 1.0

SPIKE

1121

LABCORE Data Entry Template for Worklist# 1746

Analyst: [signature] **Instrument:** U01 AL10721 **Book #** LMCS 126B52

Method: LA-925-009 Rev/Mod A-1 spike #146B38

Worklist Comment: 1 ML SAMPLE SIZE / DILUTE IF NECESSARY / JLS

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				U-02	SOLID			N/A	ug/g
		2 BLNK-PREP				U-02	SOLID			N/A	ug/g
95000057	BX-109	3 SAMPLE	S95T000772	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	4 DUP	S95T000772	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000772	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	6 SAMPLE	S95T000775	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	7 DUP	S95T000775	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000775	0	F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1746

[signature] 7-16-95
Analyst Signature Date

[signature] 7-26-95
Analyst Signature Date

Prep: 1.0 ml sample → 10 ml .5 M HNO_3

Prep: 1.0 ml sample + .100 spike → 10 ml .5M HNO_3

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Sample ID 126B52 | Date/Time 07/16/95/09:58:18
Description LMCS | Cal Y=4.29E+07X+201.295
Ref. Ratio .842 | Intensity 3244 (t= 39 us)
Laser Pulses 500 | Conc 7.96E-05 + 2.56E-06 ug/L
Lifetime 304 + 1.581 us | Dilution Factor 1 mL/mL
R2 .9988
Integrated 62065 | FINAL RESULT 7.96E-05 + 2.56E-06 ug/L
Range: HIGH

Sample ID PREP BLANK | Date/Time 07/16/95/12:02:37
Description BX-109 | Cal Y=3.10E+09X0
Ref. Ratio .899 | Intensity 26813 (t= 39 us)
Laser Pulses 500 | Conc 9.96E-06 + 1.13E-07 ug/L
Lifetime 288 + .987 us | Dilution Factor 1 mL/mL
R2 .9995
Integrated 506130 | FINAL RESULT 9.96E-06 + 1.13E-07 ug/L
Range: LOW

Sample ID S95T000772 | Date/Time 07/16/95/12:05:06
Description BX-109 | Cal Y=4.29E+07X+201.295
Ref. Ratio .878 | Intensity 59790 (t= 286 us)
Laser Pulses 500 | Conc 4.21E-03 + 1.35E-04 ug/L
Lifetime 272 + .685 us | Dilution Factor 1 mL/mL
R2 .9997
Integrated 1139241 | FINAL RESULT 4.21E-03 + 1.35E-04 ug/L
Range: HIGH

Sample ID S95T000772-DUP | Date/Time 07/16/95/12:07:39
Description BX-109 | Cal Y=4.29E+07X+201.295
Ref. Ratio .889 | Intensity 58024 (t= 325 us)
Laser Pulses 500 | Conc 4.48E-03 + 1.47E-04 ug/L
Lifetime 282 + 1.057 us | Dilution Factor 1 mL/mL
R2 .9994
Integrated 1121977 | FINAL RESULT 4.48E-03 + 1.47E-04 ug/L
Range: HIGH

Sample ID S95T000772-SPK | Date/Time 07/16/95/12:16:06
Description BX-109 | Cal Y=4.29E+07X+201.295
Ref. Ratio .894 | Intensity 59795 (t= 351 us)
Laser Pulses 500 | Conc 4.94E-03 + 1.58E-04 ug/L
Lifetime 289 + .527 us | Dilution Factor 1 mL/mL
R2 .9998
Integrated 1185818 | FINAL RESULT 4.94E-03 + 1.58E-04 ug/L
Range: HIGH

Sample ID S95T000775 | Date/Time 07/16/95/12:18:56
Description BX-109 | Cal Y=4.29E+07X+201.295
Ref. Ratio .887 | Intensity 59326 (t= 390 us)
Laser Pulses 500 | Conc 5.52E-03 + 1.82E-04 ug/L
Lifetime 291 + 1.166 us | Dilution Factor 1 mL/mL
R2 .9993
Integrated 1171377 | FINAL RESULT 5.52E-03 + 1.82E-04 ug/L
Range: HIGH

BEST AVAILABLE COPY

Sample ID S95T000775-DUP	Date/Time 07/16/95/12:20:50
Description BX-109	Cal Y=4.29E+07X+201.295
Ref. Ratio .882	Intensity 59051 (t= 377 us)
Laser Pulses 500	Conc 5.34E-03 + 1.74E-04 ug/L
Lifetime 289 + .935 us	Dilution Factor 1 mL/mL
R2 .9996	
Integrated 1166827	FINAL RESULT 5.34E-03 + 1.74E-04 ug/L
Range: HIGH	

Sample ID S95T000775-SPK	Date/Time 07/16/95/12:23:58
Description BX-109	Cal Y=4.29E+07X+201.295
Ref. Ratio .882	Intensity 57152 (t= 442 us)
Laser Pulses 500	Conc 6.12E-03 + 2.03E-04 ug/L
Lifetime 297 + 1.192 us	Dilution Factor 1 mL/mL
R2 .9993	
Integrated 1142314	FINAL RESULT 6.12E-03 + 2.03E-04 ug/L
Range: HIGH	

BEST AVAILABLE COPY

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
STD			STANDARD
Work List	STANDARD BOOK #		126B52
1746	VOLUME OF SAMPLE (mL)	(SS)	1.00
Test Code	DILUTION FACTOR OF SAMPLE	(DF)	1.00
U-02	PREPARATION FACTOR OF SAMPLE	(PF)	1.00
Matrix	LIFETIME IN MICROSECONDS		304.00
LIQUID	R2 VALUE		0.9988
Batch Number	RANGE (HIGH OR LOW)		HIGH
174695001698	INSTRUMENT UNCERTAINTY	(IU)	2.56E-06
Rerun	INSTRUMENT RESULT	(IR)	7.96E-05
0	DETECTION LEVEL (µg/mL)		3.70E-05
Sample Prep	UNCERTAINTY (µg/mL)		2.56E-03
N/A	RESULT (µg/mL)		7.96E-02
Sample #	VALUE OF STANDARD		8.43E-02
WORKLIST#1746	%RECOVERY		94.42
Instrument Code			
UO1			
Prepared By			
SLH			
Chemist			
JLS			
Analyst			
DGG			
Date Complete			
07/25/95			
Analysis Date			
07/16/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

STANDARD.WB1 REV 1.0 925009ML

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
BLNK-PREP
Work List
1746
Test Code
U-02
Matrix
SOLID
Batch Number
174695001698
Rerun
0
Sample Prep
N/A
Sample #
BLANK
Instrument Code
UO1
Prepared By
SLH
Chemist
JLS
Analyst
DGG
Date Complete
07/25/95
Analysis Date
07/16/95
Analysis Time
06:00 AM
Sample Point
BX-109

		BLANK
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	2.0020
LIFETIME IN MICROSECONDS		288.00
R2 VALUE		0.9995
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	1.13E-07
INSTRUMENT RESULT	(IR)	9.96E-06
DETECTION LEVEL µg/g		1.85E-01
UNCERTAINTY µg/g		5.64E-01
CONCENTRATION IN SOLUTION (g/L)		9.96E-05
RESULT (µg/g)		4.98E+01

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

BLANK.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SAMPLE
Work List
1746
Test Code
U-02
Matrix
SOLID
Batch Number
174695001698
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000772
Instrument Code
UO1
Prepared By
SLH
Chemist
JLS
Analyst
DGG
Date Complete
07/25/95
Analysis Date
07/16/95
Analysis Time
06:00 AM
Sample Point
BX-109

		SAMPLE
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	2.0020
LIFETIME IN MICROSECONDS		272.00
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	1.35E-04
INSTRUMENT RESULT	(IR)	4.21E-03
DETECTION LEVEL µg/g		1.85E-01
UNCERTAINTY µg/g		6.74E+02
CONCENTRATION IN SOLUTION (g/L)		4.21E-02
RESULT (µg/g)		2.10E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1746
Test Code
U-02
Matrix
SOLID
Batch Number
174695001698
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000772
Instrument Code
UO1
Prepared By
SLH
Chemist
JLS
Analyst
DGG
Date Complete
07/25/95
Analysis Date
07/16/95
Analysis Time
06:00 AM
Sample Point
BX-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	2.0032
LIFETIME IN MICROSECONDS		282.00
R2 VALUE		0.9994
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	1.47E-04
INSTRUMENT RESULT	(IR)	4.48E-03
DETECTION LEVEL µg/g		1.85E-01
UNCERTAINTY µg/g		7.34E+02
CONCENTRATION IN SOLUTION (g/L)		4.48E-02
RESULT (µg/g)		2.24E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SPK
Work List
1746
Test Code
U-02
Matrix
SOLID
Batch Number
174695001698
Rerun
0
Sample Prep
FUSION01
Sample Number
S95T000772
Instrument Code
UO1
Prepared By
SLH
Chemist
JLS
Analyst
DGG
Date Complete
07/25/95
Analysis Date
07/16/95
Analysis Time
06:00 AM
Sample Point
BX-109

		SPIKE
SPIKE BOOK #		146B38
VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
DIGEST FACTOR OF SAMPLE	(DDF)	2.0020
LIFETIME IN MICROSECONDS		289.00
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT RESULT	(IR)	4.94E-03
CONCENTRATION IN SOLUTION (g/L)	(CONC)	4.94E-02
SPIKE VALUE	(SV)	5.09E-02
INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	4.21E-02
% RECOVERY		1.43E+02

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

SPIKE.WB1 REV 1.0 SPIKE

1129

WORKBOOK PAGE: SAM6

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
SAMPLE			SAMPLE
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1746	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	1.9760
Matrix	LIFETIME IN MICROSECONDS		291.00
SOLID	R2 VALUE		0.9993
Batch Number	RANGE (HIGH OR LOW)		HIGH
174695001698	INSTRUMENT UNCERTAINTY	(IU)	1.82E-04
Rerun	INSTRUMENT RESULT	(IR)	5.52E-03
0	DETECTION LEVEL µg/g		1.87E-01
Sample Prep	UNCERTAINTY µg/g		9.21E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		5.52E-02
Sample #	RESULT (µg/g)		2.79E+04
S95T000775			
Instrument Code			
UO1			
Prepared By			
SLH			
Chemist			
JLS			
Analyst			
DGG			
Date Complete			
07/25/95			
Analysis Date			
07/16/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: DUP7

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
DUP			DUP
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1746	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	1.9776
Matrix	LIFETIME IN MICROSECONDS		289.00
SOLID	R2 VALUE		0.9996
Batch Number	RANGE (HIGH OR LOW)		HIGH
174695001698	INSTRUMENT UNCERTAINTY	(IU)	1.74E-04
Rerun	INSTRUMENT RESULT	(IR)	5.34E-03
0	DETECTION LEVEL µg/g		1.87E-01
Sample Prep	UNCERTAINTY µg/g		8.80E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		5.34E-02
Sample #	RESULT (µg/g)		2.70E+04
S95T000775			
Instrument Code			
UO1			
Prepared By			
SLH			
Chemist			
JLS			
Analyst			
DGG			
Date Complete			
07/25/95			
Analysis Date			
07/16/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Result = Conc. In Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE8

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			SPIKE
SPK	SPIKE BOOK #		146B38
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
1746	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	1.9760
Matrix	LIFETIME IN MICROSECONDS		297.00
SOLID	R2 VALUE		0.9993
Batch Number	RANGE (HIGH OR LOW)		HIGH
174695001698	INSTRUMENT RESULT	(IR)	6.12E-03
Rerun	CONCENTRATION IN SOLUTION (g/L)	(CONC)	6.12E-02
0	SPIKE VALUE	(SV)	5.09E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	5.52E-02
S95T000775	% RECOVERY		1.18E+02
Instrument Code			
UO1			
Prepared By			
SLH			
Chemist			
JLS			
Analyst			
DGG			
Date Complete			
07/25/95			
Analysis Date			
07/16/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:	DGG	Date:	25-Jul-95
Signature of Chemist:	JLS	Date:	7/25/95

SPIKE.WB1 REV 1.0 SPIKE

LABCORE Data Entry Template for Worklist# 1747

Analyst: DCD **Instrument:** U01 ALI0721 **Book #** 126B52 - STD /1ml
146B38 - Spike / .100 ml

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: SEE ATTACHED DSI FOR SAMPLE INSTRUCTIONS / JLS

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	SOLID			N/A	ug/g
		2	BLNK-PREP				U-02	SOLID			N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000778	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	4	DUP	S95T000778	0	F	U-02	SOLID			N/A	ug/g
95000057	BX-109	5	SPK	S95T000778	0	F	U-02	SOLID			N/A	ug/g
95000059	BX-109	6	SAMPLE	S95T000781	0	F	U-02	SOLID	N/A			ug/g
95000059	BX-109	7	DUP	S95T000781	0	F	U-02	SOLID			N/A	ug/g
95000059	BX-109	8	SPK	S95T000781	0	F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1747

David C Duncan 7-30-95
Analyst Signature Date

Shawn L Wald 8-1-95
Analyst Signature Date

Sample Prep Sample Size

Data Entry Comments: 1ml -> 10ml .5M HNO_3 / 1ml

for SAMPLES, DUPLICATES, SPIKES & BLANK

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Sample ID 126852
Description STANDARD
Ref. Ratio 1.123
Laser Pulses 500
Lifetime 248 + .5 us
R2 .9998
Integrated 820252
Range: LOW

Date/Time 07/30/95/21:38:57
Cal Y=7.30E+09X0
Intensity 46425 (t= 611 us)
Conc 7.89E-05 + 1.04E-06 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 7.89E-05 + 1.04E-06 G/L

Sample ID PREP BLNK
Description BLANK
Ref. Ratio 1.138
Laser Pulses 500
Lifetime 239 + .677 us
R2 .9997
Integrated 752802
Range: LOW

Date/Time 07/30/95/22:00:07
Cal Y=7.30E+09X0
Intensity 43650 (t= 78 us)
Conc 8.74E-06 + 1.02E-07 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 8.74E-06 + 1.02E-07 G/L

Sample ID S95T000~~787~~ 778 QCD 7-30-95
Description SAMPLE
Ref. Ratio 1.142
Laser Pulses 500
Lifetime 253 + .616 us
R2 .9997
Integrated 806800
Range: HIGH

Date/Time 07/30/95/21:41:24
Cal Y=1.08E+08X-6.25E+02
Intensity 44856 (t= 507 us)
Conc 3.28E-03 + 1.04E-04 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 3.28E-03 + 1.04E-04 G/L

Sample ID S95T000~~787~~ 778 QCD 7-30-95
Description DUPLICATE
Ref. Ratio 1.142
Laser Pulses 500
Lifetime 245 + .429 us
R2 .9999
Integrated 783361
Range: HIGH

Date/Time 07/30/95/21:43:49
Cal Y=1.08E+08X-6.25E+02
Intensity 44628 (t= 507 us)
Conc 3.46E-03 + 1.08E-04 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 3.46E-03 + 1.08E-04 G/L

Sample ID S95T000~~787~~ 778 QCD 7-30-95
Description SPIKE
Ref. Ratio 1.147
Laser Pulses 500
Lifetime 225 + .311 us
R2 .9999
Integrated 728085
Range: HIGH

Date/Time 07/30/95/21:45:54
Cal Y=1.08E+08X-6.25E+02
Intensity 44263 (t= 481 us)
Conc 3.70E-03 + 1.15E-04 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 3.70E-03 + 1.15E-04 G/L

Sample ID S95T000781
Description SAMPLE
Ref. Ratio 1.148
Laser Pulses 500
Lifetime 240 + .453 us
R2 .9998
Integrated 763607
Range: HIGH

Date/Time 07/30/95/21:50:33
Cal Y=1.08E+08X-6.25E+02
Intensity 43911 (t= 364 us)
Conc 1.98E-03 + 6.20E-05 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 1.98E-03 + 6.20E-05 G/L

WHC-SD-WM-DP-154, REV. 0

```
Sample ID  S95T000781                Date/Time  07/30/95/21:56:02
Description  DUPLICATE                Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.156                      Intensity 44155      (t= 325      us)
Laser Pulses 500                      Conc 1.74E-03 + 5.47E-05 G/L
Lifetime 234 + .476 us                Dilution Factor 1 mL/mL
R2 .9998
Integrated 750146          FINAL RESULT  1.74E-03 + 5.47E-05 G/L
Range: HIGH
```

```
Sample ID  S95T000781                Date/Time  07/30/95/21:58:19
Description  SPIKE                   Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.159                      Intensity 44920      (t= 403      us)
Laser Pulses 500                      Conc 2.34E-03 + 7.38E-05 G/L
Lifetime 242 + .564 us                Dilution Factor 1 mL/mL
R2 .9998
Integrated 780765          FINAL RESULT  2.34E-03 + 7.38E-05 G/L
Range: HIGH
```

84-3000-10119-591

DON'T SAY IT --- *Write It!*

DATE 7/25/95

TO Worklist 1747

FROM Jennifer Diggens 373-3199

1 mL → 10 mL sample prep

For spike: 0.1 mL spike + 1mL sample → 10 mL sample prep

1 mL sample size / dilute as necessary

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
STD
Work List
1747
Test Code
U-02
Matrix
LIQUID
Batch Number
174795001699
Rerun
0
Sample Prep
N/A
Sample #
WORKLIST#1747
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		STANDARD
STANDARD BOOK #		126B52
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
LIFETIME IN MICROSECONDS		248
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	1.04E-06
INSTRUMENT RESULT	(IR)	7.89E-05
DETECTION LEVEL (µg/mL)		3.70E-05
UNCERTAINTY (µg/mL)		1.04E-03
RESULT (µg/mL)		7.89E-02
VALUE OF STANDARD		8.43E-02
%RECOVERY		93.59

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst:	dcd	Date:	31-Jul-95
Signature of Chemist:	jls	Date:	7/31/95

STANDARD.WB1 REV 1.0 925009ML

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
BLNK-PREP
Work List
1747
Test Code
U-02
Matrix
SOLID
Batch Number
174795001699
Rerun
0
Sample Prep
N/A
Sample #
S95T000778
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		BLANK
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	1.8624
LIFETIME IN MICROSECONDS		239
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	1.02E-07
INSTRUMENT RESULT	(IR)	8.74E-06
DETECTION LEVEL µg/g		1.99E-01
UNCERTAINTY µg/g		5.48E-01
CONCENTRATION IN SOLUTION (g/L)		8.74E-05
RESULT (µg/g)		4.69E+01

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		dcd	Date: 31-Jul-95
Signature of Chemist:		jls	Date: 7/31/95

BLANK.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SAMPLE
Work List
1747
Test Code
U-02
Matrix
SOLID
Batch Number
174795001699
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000778
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		SAMPLE
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	1.8624
LIFETIME IN MICROSECONDS		253
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	1.04E-04
INSTRUMENT RESULT	(IR)	3.28E-03
DETECTION LEVEL µg/g		1.99E-01
UNCERTAINTY µg/g		5.58E+02
CONCENTRATION IN SOLUTION (g/L)		3.28E-02
RESULT (µg/g)		1.76E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		dcd	Date: 31-Jul-95
Signature of Chemist:		jls	Date: 7/31/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1747
Test Code
U-02
Matrix
SOLID
Batch Number
174795001699
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000778
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	1.9512
LIFETIME IN MICROSECONDS		245
R2 VALUE		0.9999
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	1.08E-04
INSTRUMENT RESULT	(IR)	3.46E-03
DETECTION LEVEL µg/g		1.90E-01
UNCERTAINTY µg/g		5.54E+02
CONCENTRATION IN SOLUTION (g/L)		3.46E-02
RESULT (µg/g)		1.77E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		dcd	Date: 31-Jul-95
Signature of Chemist:		jls	Date: 7/31/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SPK
Work List
1747
Test Code
U-02
Matrix
SOLID
Batch Number
174795001699
Rerun
0
Sample Prep
FUSION01
Sample Number
S95T000778
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		SPIKE
SPIKE BOOK #		146B38
VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
DIGEST FACTOR OF SAMPLE	(DDF)	1.8624
LIFETIME IN MICROSECONDS		225
R2 VALUE		0.9999
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT RESULT	(IR)	3.70E-03
CONCENTRATION IN SOLUTION (g/L)	(CONC)	3.70E-02
SPIKE VALUE	(SV)	5.09E-02
INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	3.28E-02
% RECOVERY		8.25E+01

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst: dcd Date: 31-Jul-95

Signature of Chemist: jls Date: 7/31/95

SPIKE.WB1 REV 1.0 SPIKE

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
SAMPLE			SAMPLE
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1747	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	2.0540
Matrix	LIFETIME IN MICROSECONDS		240
SOLID	R2 VALUE		0.9998
Batch Number	RANGE (HIGH OR LOW)		HIGH
174795001699	INSTRUMENT UNCERTAINTY	(IU)	6.20E-05
Rerun	INSTRUMENT RESULT	(IR)	1.98E-03
0	DETECTION LEVEL µg/g		1.80E-01
Sample Prep	UNCERTAINTY µg/g		3.02E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		1.98E-02
Sample #	RESULT (µg/g)		9.64E+03
S95T000781			
Instrument Code			
AL10721	Result = Conc. in Solution (g/L) * 1000000 / Dg/L		
Prepared By			
sih	Uncertainty = IU * DF * PF * 1000000 / Dg/L		
Chemist			
jls	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
Analyst			
dcd	Concentration in Solution (g/L) = IR * DF * PF		
Date Complete			
07/31/95			
Analysis Date			
07/30/95			
Analysis Time			
10:00 AM			
Sample Point			
BX-109			

Analyst:	dcd	Date:	31-Jul-95
Signature of Chemist:	jls	Date:	7/31/95

SAMPLE.WB1 REV 1.0 925009ML

1142

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1747
Test Code
U-02
Matrix
SOLID
Batch Number
174795001699
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000781
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	2.0924
LIFETIME IN MICROSECONDS		234
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	5.47E-05
INSTRUMENT RESULT	(IR)	1.74E-03
DETECTION LEVEL µg/g		1.77E-01
UNCERTAINTY µg/g		2.61E+02
CONCENTRATION IN SOLUTION (g/L)		1.74E-02
RESULT (µg/g)		8.32E+03

Result = Conc. In Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration In Solution (g/L) = IR * DF * PF

Analyst:	dcd	Date:	31-Jul-95
Signature of Chemist:	jls	Date:	7/31/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE8

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			SPIKE
SPK	SPIKE BOOK #		146B38
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
1747	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	2.0540
Matrix	LIFETIME IN MICROSECONDS		242
SOLID	R2 VALUE		0.9998
Batch Number	RANGE (HIGH OR LOW)		HIGH
174795001699	INSTRUMENT RESULT	(IR)	2.34E-03
Rerun	CONCENTRATION IN SOLUTION (g/L)	(CONC)	2.34E-02
0	SPIKE VALUE	(SV)	5.09E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	1.98E-02
S95T000781	% RECOVERY		7.07E+01
Instrument Code			
AL10721			
Prepared By			
slh			
Chemist			
jls			
Analyst			
dcd			
Date Complete			
07/31/95			
Analysis Date			
07/30/95			
Analysis Time			
10:00 AM			
Sample Point			
BX-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst: dcd Date: 31-Jul-95

Signature of Chemist: jls Date: 7/31/95

SPIKE.WB1 REV 1.0 SPIKE

LABCORE Data Entry Template for Worklist# 1748

Analyst: DCD **Instrument:** U01 AL10721 **Book #** STD-126B59 / 1ml
SPIKE-146B38 / .100 ml

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: SEE ATTACHED DSI FOR SAMPLE INSTRUCTIONS / JLS

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	SOLID			N/A	ug/g
		2	BLNK-PREP				U-02	SOLID			N/A	ug/g
95000059	BX-109	3	SAMPLE	S95T000787	0	F	U-02	SOLID	N/A			ug/g
95000059	BX-109	4	DUP	S95T000787	0	F	U-02	SOLID			N/A	ug/g
95000059	BX-109	5	SPK	S95T000787	0	F	U-02	SOLID			N/A	ug/g
95000059	BX-109	6	SAMPLE	S95T000790	0	F	U-02	SOLID	N/A			ug/g
95000059	BX-109	7	DUP	S95T000790	0	F	U-02	SOLID			N/A	ug/g
95000059	BX-109	8	SPK	S95T000790	0	F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1748

David C Duncan 7-30-95
Analyst Signature **Date**

C.J. Glenn 8/1/95
Analyst Signature **Date**

Data Entry Comments: Sample Prep as written on DSI
Sample Size used for all samples 1 ml

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Sample ID 1Z6B52
Description STANDARD
Ref. Ratio 1.164
Laser Pulses 500
Lifetime 247 + .301 us
R2 1
Integrated 782734
Range: LOW

Date/Time 07/30/95/22:21:21
Cal Y=7.30E+09X0
Intensity 44206 (t= 624 us)
Conc 8.01E-05 + 9.13E-07 g/L
Dilution Factor 1 mL/mL

FINAL RESULT 8.01E-05 + 9.13E-07 g/L

Sample ID PREP BLANK
Description BLANK
Ref. Ratio 1.161
Laser Pulses 500
Lifetime 256 + .799 us
R2 .9996
Integrated 817687
Range: LOW

Date/Time 07/30/95/22:18:37
Cal Y=7.30E+09X0
Intensity 45894 (t= 39 us)
Conc 7.57E-06 + 8.81E-08 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 7.57E-06 + 8.81E-08 G/L

Sample ID S95T000787
Description SAMPLE
Ref. Ratio 1.159
Laser Pulses 500
Lifetime 248 + .569 us
R2 .9998
Integrated 809703
Range: HIGH

Date/Time 07/30/95/22:08:54
Cal Y=1.08E+08X-6.25E+02
Intensity 45204 (t= 234 us)
Conc 1.15E-03 + 3.60E-05 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 1.15E-03 + 3.60E-05 G/L

Sample ID S95T000787
Description DUPLICATE
Ref. Ratio 1.166
Laser Pulses 500
Lifetime 268 + .797 us
R2 .9997
Integrated 851193
Range: HIGH

Date/Time 07/30/95/22:13:03
Cal Y=1.08E+08X-6.25E+02
Intensity 45114 (t= 247 us)
Conc 1.12E-03 + 3.53E-05 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 1.12E-03 + 3.53E-05 G/L

Sample ID S95T000787
Description SPIKE
Ref. Ratio 1.166
Laser Pulses 500
Lifetime 236 + .639 us
R2 .9997
Integrated 760589
Range: HIGH

Date/Time 07/30/95/22:14:00
Cal Y=1.08E+08X-6.25E+02
Intensity 44267 (t= 312 us)
Conc 1.64E-03 + 5.18E-05 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 1.64E-03 + 5.18E-05 G/L

Sample ID S95T000790
Description SAMPLE
Ref. Ratio 1.169
Laser Pulses 500
Lifetime 241 + .72 us
R2 .9996
Integrated 764898
Range: HIGH

Date/Time 07/30/95/22:14:56
Cal Y=1.08E+08X-6.25E+02
Intensity 44439 (t= 130 us)
Conc 7.49E-04 + 2.34E-05 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 7.49E-04 + 2.34E-05 G/L

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

Sample ID S95T000790
Description DUPLICATE
Ref. Ratio 1.166
Laser Pulses 500
Lifetime 241 + .372 us
R2 .9999
Integrated 782732
Range: HIGH

Date/Time 07/30/95/22:16:17
Cal Y=1.08E+08X-6.25E+02
Intensity 45040 (t= 143 us)
Conc 8.08E-04 + 2.50E-05 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 8.08E-04 + 2.50E-05 G/L

Sample ID S95T000790
Description SPIKE
Ref. Ratio 1.176
Laser Pulses 500
Lifetime 249 + .504 us
R2 .9998
Integrated 807517
Range: HIGH

Date/Time 07/30/95/22:17:13
Cal Y=1.08E+08X-6.25E+02
Intensity 45033 (t= 260 us)
Conc 1.27E-03 + 3.96E-05 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 1.27E-03 + 3.96E-05 G/L

BEST AVAILABLE COPY

84-3000-1011(9-89)

DON'T SAY IT --- *Write It!*

DATE 7/25/95

TO Worklist 1748

FROM Jennifer W. Slipper 373-3199

0.5 mL → 10 mL sample prep

For spike: 0.5 mL sample + 0.1 mL spike → 10 mL sample prep

1 mL sample size / dilute as necessary

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
STD
Work List
1748
Test Code
U-02
Matrix
LIQUID
Batch Number
174895001700
Rerun
0
Sample Prep
N/A
Sample #
WORKLIST#1748
Instrument Code
U01
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
10:30 PM
Sample Point
BX-109

		STANDARD
STANDARD BOOK #		126B52
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
LIFETIME IN MICROSECONDS		247
R2 VALUE		1.0000
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	9.13E-07
INSTRUMENT RESULT	(IR)	8.01E-05
DETECTION LEVEL (µg/mL)		3.70E-05
UNCERTAINTY (µg/mL)		9.13E-04
RESULT (µg/mL)		8.01E-02
VALUE OF STANDARD		8.43E-02
%RECOVERY		95.02

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst:	DCD	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

STANDARD.WB1 REV 1.0 925009ML

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
BLNK-PREP			BLANK
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1748	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	20.00
U-02	DIGEST FACTOR	(Dg/L)	2.3020
Matrix	LIFETIME IN MICROSECONDS		256
SOLID	R2 VALUE		0.9996
Batch Number	RANGE (HIGH OR LOW)		LOW
174895001700	INSTRUMENT UNCERTAINTY	(IU)	8.81E-08
Rerun	INSTRUMENT RESULT	(IR)	7.57E-06
0	DETECTION LEVEL µg/g		3.21E-01
Sample Prep	UNCERTAINTY µg/g		7.65E-01
N/A	CONCENTRATION IN SOLUTION (g/L)		1.51E-04
Sample #	RESULT (µg/g)		6.58E+01
S95T787			
Instrument Code			
U01			
Prepared By			
CJO			
Chemist			
JLS			
Analyst			
DCD			
Date Complete			
08/01/95			
Analysis Date			
07/30/95			
Analysis Time			
10:30 PM			
Sample Point			
BX-109			

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DCD	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

BLANK.WB1 REV 1.0 925009ML

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SAMPLE
Work List
1748
Test Code
U-02
Matrix
SOLID
Batch Number
174895001700
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000787
Instrument Code
U01
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
10:30 PM
Sample Point
BX-109

		SAMPLE
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	20.00
DIGEST FACTOR	(Dg/L)	2.3020
LIFETIME IN MICROSECONDS		248
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	3.60E-05
INSTRUMENT RESULT	(IR)	1.15E-03
DETECTION LEVEL µg/g		3.21E-01
UNCERTAINTY µg/g		3.13E+02
CONCENTRATION IN SOLUTION (g/L)		2.30E-02
RESULT (µg/g)		9.99E+03

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DCD	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

SAMPLE.WB1 REV 1.0 925009ML

1151

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1748
Test Code
U-02
Matrix
SOLID
Batch Number
174895001700
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000787
Instrument Code
U01
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
10:30 PM
Sample Point
BX-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	20.00
DIGEST FACTOR	(Dg/L)	2.3200
LIFETIME IN MICROSECONDS		268
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	3.53E-05
INSTRUMENT RESULT	(IR)	1.12E-03
DETECTION LEVEL µg/g		3.19E-01
UNCERTAINTY µg/g		3.04E+02
CONCENTRATION IN SOLUTION (g/L)		2.24E-02
RESULT (µg/g)		9.66E+03

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		DCD	Date: 01-Aug-95
Signature of Chemist:		JLS	Date: 8/1/95

SAMPLE.WB1 REV 1.0 925009ML

1152

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			SPIKE
SPK	SPIKE BOOK #		146B38
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
1748	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	20.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	2.3020
Matrix	LIFETIME IN MICROSECONDS		236
SOLID	R2 VALUE		0.9997
Batch Number	RANGE (HIGH OR LOW)		HIGH
174895001700	INSTRUMENT RESULT	(IR)	1.64E-03
Rerun	CONCENTRATION IN SOLUTION (g/L)	(CONC)	3.28E-02
0	SPIKE VALUE	(SV)	5.09E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	0.50
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	2.30E-02
S95T000787	% RECOVERY		9.63E+01
Instrument Code			
U01			
Prepared By			
CJO			
Chemist			
JLS			
Analyst			
DCD			
Date Complete			
08/01/95			
Analysis Date			
07/30/95			
Analysis Time			
10:30 PM			
Sample Point			
BX-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:	DCD	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

SPIKE.WB1 REV 1.0 SPIKE

WORKBOOK PAGE: SAM6

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
SAMPLE			SAMPLE
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1748	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	20.00
U-02	DIGEST FACTOR	(Dg/L)	2.0100
Matrix	LIFETIME IN MICROSECONDS		241
SOLID	R2 VALUE		0.9996
Batch Number	RANGE (HIGH OR LOW)		HIGH
174895001700	INSTRUMENT UNCERTAINTY	(IU)	2.34E-05
Rerun	INSTRUMENT RESULT	(IR)	7.49E-04
0	DETECTION LEVEL µg/g		3.68E-01
Sample Prep	UNCERTAINTY µg/g		2.33E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		1.50E-02
Sample #	RESULT (µg/g)		7.45E+03
S95T000790			
Instrument Code			
U01			
Prepared By			
CJO			
Chemist			
JLS			
Analyst			
DCD			
Date Complete			
08/01/95			
Analysis Date			
07/30/95			
Analysis Time			
10:30 PM			
Sample Point			
BX-109			

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DCD	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

SAMPLE.WB1 REV 1.0 925009ML

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1748
Test Code
U-02
Matrix
SOLID
Batch Number
174895001700
Rerun
0
Sample Prep
FUSION01
Sample #
S95T000790
Instrument Code
U01
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
10:30 PM
Sample Point
BX-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	20.00
DIGEST FACTOR	(Dg/L)	1.9900
LIFETIME IN MICROSECONDS		241
R2 VALUE		0.9999
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	2.50E-05
INSTRUMENT RESULT	(IR)	8.08E-04
DETECTION LEVEL µg/g		3.72E-01
UNCERTAINTY µg/g		2.51E+02
CONCENTRATION IN SOLUTION (g/L)		1.62E-02
RESULT (µg/g)		8.12E+03

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	DCD	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE8

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			SPIKE
SPK	SPIKE BOOK #		146B38
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
1748	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	20.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	2.0100
Matrix	LIFETIME IN MICROSECONDS		249
SOLID	R2 VALUE		0.9998
Batch Number	RANGE (HIGH OR LOW)		HIGH
174895001700	INSTRUMENT RESULT	(IR)	1.27E-03
Rerun	CONCENTRATION IN SOLUTION (g/L)	(CONC)	2.54E-02
0	SPIKE VALUE	(SV)	5.09E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	0.50
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	1.50E-02
S95T000790	% RECOVERY		1.02E+02
Instrument Code			
U01			
Prepared By			
CJO			
Chemist			
JLS			
Analyst			
DCD			
Date Complete			
08/01/95			
Analysis Date			
07/30/95			
Analysis Time			
10:30 PM			
Sample Point			
BX-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:		DCD	Date:	01-Aug-95
Signature of Chemist:		JLS	Date:	8/1/95

SPIKE.WB1 REV 1.0 SPIKE

LABCORE Completed Worklist Report for Worklist# 1749

Analyst: rag **Instrument:** U01 **Book#** _____

Method: _____ Rev/Mod _____

Worklist Comment: 1 ML SAMPLE SIZE / DILUTE IF NECESSARY / JLS

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	STD		0		U-02	SOLID	8.43e-2	8.36e-2	99.170	% Recovery
2	BLNK-PREP		0		U-02	SOLID	1	8.81e+1	88.100	ug/g
3	SAMPLE ✓	S95T000837	0	F	U-02	SOLID	N/A	2.42e+4	0.176	ug/g
4	DUP	S95T000837	0	F	U-02	SOLID	2.42e+4	2.47e+4	2.040	RPD
5	SPK	S95T000837	0	F	U-02	SOLID	100	96.3	96.300	% Recovery
6	REJECT	S95T000840	0	F	U-02	SOLID	N/A	na		ug/g
7	DUP	S95T000840	0	F	U-02	SOLID	na	na		RPD
8	SPK	S95T000840	0	F	U-02	SOLID	100	na		% Recovery

Final page for worklist# 1749

_____ _____
Analyst Signature **Date** **Analyst Signature** **Date**

_____
Reviewer Signature **Date**

Original worklist and raw data missing. Reprint of worklist #1749.
S95T000840 was apparently rejected and rerun.
JJ Fitts 5 Mar 96

Sample S95T000840 was rerun under worklist #1917.
PDK 3/5/96.

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 1750

Analyst: dgg **Instrument:** U01 **Book#** _____

Method: _____ Rev/Mod _____

Worklist Comment: 1 ML SAMPLE SIZE / DILUTE IF NECESSARY / JLS

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	STD		0		U-02	SOLID	8.43e-02	8.13e-2	96.440	% Recovery
2	BLNK-PREP		0		U-02	SOLID	1	5.09e+1	50.900	ug/g
3	REJECT	S95T000848	0	F	U-02	SOLID	N/A	1.67e+4		ug/g
4	DUP	S95T000848	0	F	U-02	SOLID	1.67e+4	1.66e+4	0.600	RPD
5	SPK	S95T000848	0	F	U-02	SOLID	100	3.14e+2	314.000	% Recovery
6	SAMPLE	S95T000851	0	F	U-02	SOLID	N/A	1.58e+4	1.780e-002	ug/g
7	DUP	S95T000851	0	F	U-02	SOLID	1.58e+4	1.63e+4	3.120	RPD
8	SPK	S95T000851	0	F	U-02	SOLID	100	1.38e+2	138.000	% Recovery

Final page for worklist# 1750

_____ _____
Analyst Signature **Date**

_____ _____
Analyst Signature **Date**

_____ _____
Reviewer Signature **Date**

Original worklist and raw data missing.
[illegible] 5 Mar 96

Sample S95T000848 was rerun on worklist # 1919.
RDA 3/5/96.

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 1884

Analyst: JBB **Instrument:** U01 AL10721 **Book #** 126B52
Spike # 146B52
Spike Vol. .200 ml

Method: LA-925-009 Rev/Mod A1

Worklist Comment: ~~.1ml to 10ml prep/.1ml spike + .1ml sample to 10 ml prep/jls~~ JBB 7-25-95

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	LIQUID			N/A	ug/mL
		2	BLNK-PREP				U-02	LIQUID			N/A	ug/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	U-02	LIQUID	N/A			ug/mL
95000059	BX-109	4	DUP	S95T000784	0	D	U-02	LIQUID			N/A	ug/mL
95000059	BX-109	5	SPK	S95T000784	0	D	U-02	LIQUID			N/A	ug/mL

Final page for worklist # 1884

J B Griffin 7-25-95
Analyst Signature **Date**

Analyst Signature 8/1/95 **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Sample ID 126B52 Date/Time 07/25/95/20:51:17
Description LMCS STD. Cal Y=1.25E+08X-9.50E+02
Ref. Ratio .67 Intensity 8991 (t= 39 us)
Laser Pulses 500 Conc 8.84E-05 + 2.83E-06 ug/L
Lifetime 296 + 1.685 us Dilution Factor 1 mL/mL
R2 .9986
Integrated 170247 FINAL RESULT 8.84E-05 + 2.83E-06 ug/L
Range: HIGH

Sample ID PREP BLANK Date/Time 07/25/95/20:57:50
Description BX-109 Cal Y=1.25E+08X-9.50E+02
Ref. Ratio .674 Intensity 4185 (t= 39 us)
Laser Pulses 500 Conc 5.24E-05 + 1.65E-06 ug/L
Lifetime 200 + .526 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 64700 FINAL RESULT 5.24E-05 + 1.65E-06 ug/L
Range: HIGH

Sample ID S95T000784 Date/Time 07/25/95/21:02:18
Description BX-109 Cal Y=1.25E+08X-9.50E+02
Ref. Ratio .677 Intensity 75814 (t= 689 us)
Laser Pulses 500 Conc 1.11E-02 + 3.52E-04 ug/L
Lifetime 247 + .399 us Dilution Factor 1 mL/mL
R2 .9999
Integrated 1323142 FINAL RESULT 1.11E-02 + 3.52E-04 ug/L
Range: HIGH

BEST AVAILABLE COPY

Sample ID S95T000784-DUP Date/Time 07/25/95/21:08:11
Description BX-109 Cal Y=1.25E+08X-9.50E+02
Ref. Ratio .677 Intensity 76956 (t= 650 us)
Laser Pulses 500 Conc 1.07E-02 + 3.42E-04 ug/L
Lifetime 233 + .388 us Dilution Factor 1 mL/mL
R2 .9999
Integrated 1313120 FINAL RESULT 1.07E-02 + 3.42E-04 ug/L
Range: HIGH

Sample ID S95T000784-SPK Date/Time 07/25/95/21:09:44
Description BX-109 Cal Y=1.25E+08X-9.50E+02
Ref. Ratio .669 Intensity 77772 (t= 728 us)
Laser Pulses 500 Conc 1.26E-02 + 4.14E-04 ug/L
Lifetime 246 + .583 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 1362732 FINAL RESULT 1.26E-02 + 4.14E-04 ug/L
Range: HIGH

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
STD
Work List
1884
Test Code
U-02
Matrix
LIQUID
Batch Number
188495001869
Rerun
0
Sample Prep
N/A
Sample #
WORKLIST 1884
Instrument Code
AL10721
Prepared By
JLS
Chemist
JLS
Analyst
DGG
Date Complete
08/01/95
Analysis Date
07/25/95
Analysis Time
09:00 PM
Sample Point
BX-109

		STANDARD
STANDARD BOOK #		126B52
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
LIFETIME IN MICROSECONDS		296
R2 VALUE		0.9986
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	2.83E-06
INSTRUMENT RESULT	(IR)	8.84E-05
DETECTION LEVEL (µg/mL)		3.70E-05
UNCERTAINTY (µg/mL)		2.83E-03
RESULT (µg/mL)		8.84E-02
VALUE OF STANDARD		8.43E-02
%RECOVERY		104.86

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst: DGG Date: 01-Aug-95

Signature of Chemist: JLS Date: 8/1/95

STANDARD.WB1 REV 1.0 925009ML

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
BLNK-PREP			BLANK
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1884	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	1.00
U-02	DIGEST DILUTION FACTOR	(DDF)	100.0000
Matrix	LIFETIME IN MICROSECONDS		200
LIQUID	R2 VALUE		0.9997
Batch Number	RANGE (HIGH OR LOW)		HIGH
188495001869	INSTRUMENT UNCERTAINTY	(IU)	1.65E-06
Rerun	INSTRUMENT RESULT	(IR)	5.24E-05
0	DETECTION LEVEL (µg/mL)		3.70E-03
Sample Prep	UNCERTAINTY (µg/mL)		1.65E-01
N/A			
Sample #	RESULT (µg/mL)		5.24E+00
BLANK			
Instrument Code			
AL10721	Result = DF * PF * DDF * IR * 1000		
Prepared By			
JLS	Uncertainty = IU * DF * PF * DDF * 1000		
Chemist			
JLS	Detection Level = 3.70 E-08 * DF * PF * DDF * 1000		
Analyst			
DGG			
Date Complete			
08/01/95			
Analysis Date			
07/25/95			
Analysis Time			
09:00 PM			
Sample Point			
BX-109			

Analyst:		DGG	Date: 01-Aug-95
Signature of Chemist:		JLS	Date: 8/1/95

BLANK.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type	
SAMPLE	
Work List	
1884	
Test Code	
U-02	
Matrix	
LIQUID	
Batch Number	
188495001869	
Rerun	
2	
Sample Prep	
ACIDIL01	
Sample #	
S95T000784	
Instrument Code	
AL10721	
Prepared By	
JLS	
Chemist	
JLS	
Analyst	
DGG	
Date Complete	
08/01/95	
Analysis Date	
07/25/95	
Analysis Time	
09:00 PM	
Sample Point	
BX-109	

		SAMPLE
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
DIGEST DILUTION FACTOR	(DDF)	100.0000
LIFETIME IN MICROSECONDS		242
R2 VALUE		0.9999
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	3.52E-04
INSTRUMENT RESULT	(IR)	1.11E-02
DETECTION LEVEL (µg/mL)		3.70E-03
UNCERTAINTY (µg/mL)		3.52E+01
RESULT (µg/mL)		1.11E+03

Result = DF * PF * DDF * IR * 1000

Uncertainty = IU * DF * PF * DDF * 1000

Detection Level = 3.70 E-08 * DF * PF * DDF * 1000

Analyst:	DGG	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

SAMPLE.WB1 REV 1.0 925009ML

1161

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1884
Test Code
U-02
Matrix
LIQUID
Batch Number
188495001869
Rerun #
2
Sample Prep
ACIDIL01
Sample #
S95T000784
Instrument Code
AL10721
Prepared By
JLS
Chemist
JLS
Analyst
DGG
Date Complete
08/01/95
Analysis Date
07/25/95
Analysis Time
09:00 PM
Sample Point
BX-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
DIGEST DILUTION FACTOR	(DDF)	100.0000
LIFETIME IN MICROSECONDS		233
R2 VALUE		0.9999
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	3.42E-04
INSTRUMENT RESULT	(IR)	1.07E-02
DETECTION LEVEL (µg/mL)		3.70E-03
UNCERTAINTY (µg/mL)		3.42E+01
RESULT (µg/mL)		1.07E+03

Result = DF * PF * DDF * IR * 1000

Uncertainty = IU * DF * PF * DDF * 1000

Detection Level = 3.70 E-08 * DF * PF * DDF * 1000

Analyst: DGG Date: 01-Aug-95

Signature of Chemist: JLS Date: 8/1/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SPK
Work List
1884
Test Code
U-02
Matrix
LIQUID
Batch Number
188495001869
Rerun
2
Sample Prep
ACIDIL01
Sample Number
S95T000784
Instrument Code
AL10721
Prepared By
JLS
Chemist
JLS
Analyst
DGG
Date Complete
08/01/95
Analysis Date
07/25/95
Analysis Time
09:00 PM
Sample Point
BX-109

		SPIKE
SPIKE BOOK #		146B38
VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	1.00
DIGEST DILUTION FACTOR OF SAMPLE		100.0000
LIFETIME IN MICROSECONDS		246
R2 VALUE		0.9997
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT RESULT	(IR)	1.26E-02
CONCENTRATION IN SOLUTION (g/L)	(CONC)	1.26E-02
SPIKE VALUE	(SV)	5.09E-02
INITIAL VOLUME OF SPIKE (mL)	(IV)	0.20
ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	10.00
SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	1.11E-02
% RECOVERY		1.47E+02

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst: DGG Date: 01-Aug-95

Signature of Chemist: JLS Date: 8/1/95

SPIKE.WB1 REV 1.0 SPIKE

LABCORE Data Entry Template for Worklist# 1917

Analyst: DCD **Instrument:** U01 AL10721 **Book #** STD - 126B52 /1ml
SPIKE - 140B36 8/.1ml
or 5 mls

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: SEE ATTACHED DSI FOR SAMPLE INSTRUCTIONS / JLS

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			U-02	SOLID			N/A	ug/g
		2 BLNK-PREP			U-02	SOLID			N/A	ug/g
95000059	BX-109	3 SAMPLE	S95T000840	0 F	U-02	SOLID	N/A			ug/g
95000059	BX-109	4 DUP	S95T000840	0 F	U-02	SOLID			N/A	ug/g
95000059	BX-109	5 SPK	S95T000840	0 F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1917

David Dunham 7-30-95
Analyst Signature Date

C.J. Chou 8/1/95
Analyst Signature Date

Data Entry Comments:

S95T000840 SAMPLE PREP SAMPLE SIZE

SAM 1ml Boildown → 10ml .5M HNO_3 / 1ml - 10ml → 1ml

DUP 1ml Boildown → 10ml .5M HNO_3 / 1ml - 10ml → 1ml

SPIKE 1ml Sample + .100ml spike Boildown → 10ml .5M HNO_3 / 1ml - 10ml →

.250ml sample + .750ml .5M HNO_3

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

BLNK 1ml Boildown → 10ml .5M HNO_3 / 1ml - 10ml → 1ml

84-3000-101 (9-89)

DON'T SAY IT --- *Write It!*

DATE 7/27/95

TO Worklist 1917

FROM Jennifer W. Slupesen 373-3199

1→10 mL sample prep

For spike: 1 mL sample + 0.1 mL spike → 10 mL sample prep

1 mL sample size / dilute as necessary

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

Sample ID 126B52 Date/Time 07/30/95/20:37:55
Description STANDARD Cal Y=7.30E+09X0
Ref. Ratio 1.074 Intensity 48874 (t= 598 us)
Laser Pulses 500 Conc 8.09E-05 + 1.04E-06 G/L
Lifetime 246 + .508 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 863101 FINAL RESULT 8.09E-05 + 1.04E-06 G/L
Range: LOW

Sample ID PREP BLNK Date/Time 07/30/95/21:13:02
Description BLANK Cal Y=7.30E+09X0
Ref. Ratio 1.115 Intensity 927 (t= 39 us)
Laser Pulses 500 Conc 1.50E-07 + 2.38E-09 G/L
Lifetime 285 + 2.527 us Dilution Factor 1 mL/mL
R2 .9966
Integrated 17772 FINAL RESULT 1.50E-07 + 2.38E-09 G/L
Range: LOW

Sample ID S95T000840 Date/Time 07/30/95/20:47:21
Description SAMPLE Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.103 Intensity 26155 (t= 39 us)
Laser Pulses 500 Conc 2.91E-04 + 9.03E-06 G/L
Lifetime 279 + .879 us Dilution Factor 1 mL/mL
R2 .9995
Integrated 489437 FINAL RESULT 2.91E-04 + 9.03E-06 G/L
Range: HIGH

Sample ID S95T000840 Date/Time 07/30/95/20:49:55
Description DUPLICATE Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.121 Intensity 26293 (t= 39 us)
Laser Pulses 500 Conc 2.86E-04 + 8.89E-06 G/L
Lifetime 294 + 1.115 us Dilution Factor 1 mL/mL
R2 .9994
Integrated 503103 FINAL RESULT 2.86E-04 + 8.89E-06 G/L
Range: HIGH

Sample ID S95T000840 Date/Time 07/30/95/20:56:51
Description SPIKE Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.125 Intensity 7251 (t= 39 us)
Laser Pulses 500 Conc 9.20E-05 + 2.85E-06 G/L
Lifetime 208 + .462 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 112085 FINAL RESULT 9.20E-05 + 2.85E-06 G/L
Range: HIGH

BEST AVAILABLE COPY

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
STD
Work List
1917
Test Code
U-02
Matrix
LIQUID
Batch Number
191795001914
Rerun
0
Sample Prep
N/A
Sample #
WORKLIST1917
Instrument Code
AL10721
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
09:00 PM
Sample Point
BX-109

		STANDARD
STANDARD BOOK #		126B52
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
LIFETIME IN MICROSECONDS		246
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	1.04E-06
INSTRUMENT RESULT	(IR)	8.09E-05
DETECTION LEVEL (µg/mL)		3.70E-05
UNCERTAINTY (µg/mL)		1.04E-03
RESULT (µg/mL)		8.09E-02
VALUE OF STANDARD		8.43E-02
%RECOVERY		95.97

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst:	DCD	Date:	01-Aug-95
Signature of Chemist:	JLS	Date:	8/1/95

STANDARD.WB1 REV 1.0 925009ML

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
BLNK-PREP			BLANK
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1917	DILUTION FACTOR OF SAMPLE	(DF)	11.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
U-02	DIGEST FACTOR	(Dg/L)	1.8884
Matrix	LIFETIME IN MICROSECONDS		235 ~~256~~
SOLID	R2 VALUE		0.9966
Batch Number	RANGE (HIGH OR LOW)		LOW
191795001914	INSTRUMENT UNCERTAINTY	(IU)	2.38E-09
Rerun	INSTRUMENT RESULT	(IR)	1.50E-07
0	DETECTION LEVEL µg/g		2.16E+00
Sample Prep	UNCERTAINTY µg/g		1.39E-01
N/A	CONCENTRATION IN SOLUTION (g/L)		1.65E-05
Sample #	RESULT (µg/g)		8.74E+00
S95T840			
Instrument Code			
AL10721			
Prepared By			
CJO			
Chemist			
JLS			
Analyst			
DCD			
Date Complete			
08/01/95			
Analysis Date			
07/30/95			
Analysis Time			
09:00 PM			
Sample Point			
BX-109			

8/1/95

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		DCD	Date: 01-Aug-95
Signature of Chemist:		JLS	Date: 8/1/95

BLANK.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SAMPLE
Work List
1917
Test Code
U-02
Matrix
SOLID
Batch Number
191795001914
Rerun
1
Sample Prep
FUSION01
Sample #
S95T000840
Instrument Code
AL10721
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
09:00 PM
Sample Point
BX-109

			SAMPLE
VOLUME OF SAMPLE (mL)	(SS)		1.00
DILUTION FACTOR OF SAMPLE	(DF)		11.00
PREPARATION FACTOR OF SAMPLE	(PF)		10.00
DIGEST FACTOR	(Dg/L)		1.8884
LIFETIME IN MICROSECONDS			279
R2 VALUE			0.9995
RANGE (HIGH OR LOW)			HIGH
INSTRUMENT UNCERTAINTY	(IU)		9.03E-06
INSTRUMENT RESULT	(IR)		2.91E-04
DETECTION LEVEL µg/g			2.16E+00
UNCERTAINTY µg/g			5.26E+02
CONCENTRATION IN SOLUTION (g/L)			3.20E-02
RESULT (µg/g)			1.70E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		DCD	Date:	01-Aug-95
Signature of Chemist:		JLS	Date:	8/1/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
DUP
Work List
1917
Test Code
U-02
Matrix
SOLID
Batch Number
191795001914
Rerun
1
Sample Prep
FUSION01
Sample #
S95T000840
Instrument Code
AL10721
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
09:00 PM
Sample Point
BX-109

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	11.00
PREPARATION FACTOR OF SAMPLE	(PF)	10.00
DIGEST FACTOR	(Dg/L)	1.8936
LIFETIME IN MICROSECONDS		294
R2 VALUE		0.9994
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	8.89E-06
INSTRUMENT RESULT	(IR)	2.86E-04
DETECTION LEVEL µg/g		2.15E+00
UNCERTAINTY µg/g		5.16E+02
CONCENTRATION IN SOLUTION (g/L)		3.15E-02
RESULT (µg/g)		1.66E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		DCD	Date: 01-Aug-95
Signature of Chemist:		JLS	Date: 8/1/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SPK
Work List
1917
Test Code
U-02
Matrix
SOLID
Batch Number
191795001914
Rerun
1
Sample Prep
FUSION01
Sample Number
S95T000840
Instrument Code
AL10721
Prepared By
CJO
Chemist
JLS
Analyst
DCD
Date Complete
08/01/95
Analysis Date
07/30/95
Analysis Time
09:00 PM
Sample Point
BX-109

		SPIKE
SPIKE BOOK #		148B38
VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	44.00
PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
DIGEST FACTOR OF SAMPLE	(DDF)	1.8884
LIFETIME IN MICROSECONDS		208
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT RESULT	(IR)	9.20E-05
CONCENTRATION IN SOLUTION (g/L)	(CONC)	4.05E-02
SPIKE VALUE	(SV)	5.09E-02
INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	1.00
SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	3.20E-02
% RECOVERY		1.67E+02

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:		DCD	Date:	01-Aug-95
Signature of Chemist:		JLS	Date:	8/1/95

SPIKE.WB1 REV 1.0 SPIKE

LABCORE Data Entry Template for Worklist# 1919

Analyst: DCD **Instrument:** U01 AL10721 **Book #** STD - 126B52 / 1ml
SPIKE - 146B38 / .100ml

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: ~~0.1-10~~ML SAMP PREP/0.1ML SAMP + 0.1 ML SPIKE-10ML ~~PREP~~/JLS

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	SOLID			N/A	ug/g
		2	BLNK-PREP				U-02	SOLID			N/A	ug/g
95000059	BX-109	3	SAMPLE	S95T000848	0	F	U-02	SOLID	N/A			ug/g
95000059	BX-109	4	DUP	S95T000848	0	F	U-02	SOLID			N/A	ug/g
95000059	BX-109	5	SPK	S95T000848	0	F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1919

David C Dunham 7-30-95
Analyst Signature Date

Shua L Uahle 8-1-95
Analyst Signature Date

Data Entry Comments: SAMPLE SIZE
/ml for STD, BLK, SAM, DUP, SPIKE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Sample ID 126B52 Date/Time 07/30/95/21:20:00
Description STANDARD Cal Y=7.30E+09X0
Ref. Ratio 1.094 Intensity 47681 (t= 611 us)
Laser Pulses 500 Conc 8.21E-05 + 1.18E-06 G/L
Lifetime 247 + .65 us Dilution Factor 1 mL/mL
R2 .9997
Integrated 850296 FINAL RESULT 8.21E-05 + 1.18E-06 G/L
Range: LOW

Sample ID PREP BLNK Date/Time 07/30/95/21:33:02
Description BLANK Cal Y=7.30E+09X0
Ref. Ratio 1.13 Intensity 20498 (t= 39 us)
Laser Pulses 500 Conc 3.46E-06 + 3.86E-08 G/L
Lifetime 258 + .599 us Dilution Factor 1 mL/mL
R2 .9998
Integrated 375670 FINAL RESULT 3.46E-06 + 3.86E-08 G/L
Range: LOW

Sample ID S95T000848 Date/Time 07/30/95/21:23:36
Description SAMPLE Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.136 Intensity 43421 (t= 39 us)
Laser Pulses 500 Conc 4.95E-04 + 1.54E-05 G/L
Lifetime 249 + .808 us Dilution Factor 1 mL/mL
R2 .9995
Integrated 760221 FINAL RESULT 4.95E-04 + 1.54E-05 G/L
Range: HIGH

Sample ID S95T000848 Date/Time 07/30/95/21:26:22
Description DUPLICATE Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.13 Intensity 46194 (t= 39 us)
Laser Pulses 500 Conc 5.30E-04 + 1.65E-05 G/L
Lifetime 261 + .761 us Dilution Factor 1 mL/mL
R2 .9996
Integrated 848703 FINAL RESULT 5.30E-04 + 1.65E-05 G/L
Range: HIGH

Sample ID S95T000848 Date/Time 07/30/95/21:30:46
Description SPIKE Cal Y=1.08E+08X-6.25E+02
Ref. Ratio 1.143 Intensity 44759 (t= 234 us)
Laser Pulses 500 Conc 9.93E-04 + 3.10E-05 G/L
Lifetime 285 + .853 us Dilution Factor 1 mL/mL
R2 .9996
Integrated 873213 FINAL RESULT 9.93E-04 + 3.10E-05 G/L
Range: HIGH

BEST AVAILABLE COPY

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
STD			STANDARD
Work List	STANDARD BOOK #		126B52
1919	VOLUME OF SAMPLE (mL)	(SS)	1.00
Test Code	DILUTION FACTOR OF SAMPLE	(DF)	1.00
U-02	PREPARATION FACTOR OF SAMPLE	(PF)	1.00
Matrix	LIFETIME IN MICROSECONDS		247
LIQUID	R2 VALUE		0.9997
Batch Number	RANGE (HIGH OR LOW)		LOW
191995001916	INSTRUMENT UNCERTAINTY	(IU)	1.18E-06
Rerun	INSTRUMENT RESULT	(IR)	8.21E-05
0	DETECTION LEVEL (µg/mL)		3.70E-05
Sample Prep	UNCERTAINTY (µg/mL)		1.18E-03
N/A	RESULT (µg/mL)		8.21E-02
Sample #	VALUE OF STANDARD		8.43E-02
WORKLIST#1919	%RECOVERY		97.39
Instrument Code			
AL10721			
Prepared By			
slh			
Chemist			
jls			
Analyst			
dcd			
Date Complete			
07/31/95			
Analysis Date			
07/30/95			
Analysis Time			
10:00 AM			
Sample Point			
BX-109			

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Analyst:	dcd	Date:	31-Jul-95
Signature of Chemist:	jls	Date:	7/31/95

STANDARD.WB1 REV 1.0 925009ML

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
BLNK-PREP
Work List
1919
Test Code
U-02
Matrix
SOLID
Batch Number
191995001916
Rerun
0
Sample Prep
N/A
Sample #
S95T00848
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		BLANK
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	100.00
DIGEST FACTOR	(Dg/L)	1.9276
LIFETIME IN MICROSECONDS		258
R2 VALUE		0.9998
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	3.86E-08
INSTRUMENT RESULT	(IR)	3.46E-06
DETECTION LEVEL µg/g		1.92E+00
UNCERTAINTY µg/g		2.00E+00
CONCENTRATION IN SOLUTION (g/L)		3.46E-04
RESULT (µg/g)		1.79E+02

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		dcd	Date: 31-Jul-95
Signature of Chemist:		jls	Date: 7/31/95

BLANK.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
SAMPLE
Work List
1919
Test Code
U-02
Matrix
SOLID
Batch Number
191995001916
Rerun
1
Sample Prep
FUSION01
Sample #
S95T000848
Instrument Code
AL10721
Prepared By
slh
Chemist
jls
Analyst
dcd
Date Complete
07/31/95
Analysis Date
07/30/95
Analysis Time
10:00 AM
Sample Point
BX-109

		SAMPLE
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	100.00
DIGEST FACTOR	(Dg/L)	1.9276
LIFETIME IN MICROSECONDS		249
R2 VALUE		0.9995
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	1.54E-05
INSTRUMENT RESULT	(IR)	4.95E-04
DETECTION LEVEL µg/g		1.92E+00
UNCERTAINTY µg/g		7.99E+02
CONCENTRATION IN SOLUTION (g/L)		4.95E-02
RESULT (µg/g)		2.57E+04

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	dcd	Date:	31-Jul-95
Signature of Chemist:	jls	Date:	7/31/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
DUP			DUP
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1919	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	100.00
U-02	DIGEST FACTOR	(Dg/L)	1.8924
Matrix	LIFETIME IN MICROSECONDS		261
SOLID	R2 VALUE		0.9996
Batch Number	RANGE (HIGH OR LOW)		HIGH
191995001916	INSTRUMENT UNCERTAINTY	(IU)	1.65E-05
Rerun	INSTRUMENT RESULT	(IR)	5.30E-04
1	DETECTION LEVEL µg/g		1.96E+00
Sample Prep	UNCERTAINTY µg/g		8.72E+02
FUSION01	CONCENTRATION IN SOLUTION (g/L)		5.30E-02
Sample #	RESULT (µg/g)		2.80E+04
S95T000848			
Instrument Code			
AL10721			
Prepared By			
slh			
Chemist			
jls			
Analyst			
dcd			
Date Complete			
07/31/95			
Analysis Date			
07/30/95			
Analysis Time			
10:00 AM			
Sample Point			
BX-109			

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Uncertainty = IU * DF * PF * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Concentration in Solution (g/L) = IR * DF * PF

Analyst:	dcd	Date:	31-Jul-95
Signature of Chemist:	jls	Date:	7/31/95

SAMPLE.WB1 REV 1.0 925009ML

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			SPIKE
SPK	SPIKE BOOK #		146B3E
Work List	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
1919	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	100.00
U-02	DIGEST FACTOR OF SAMPLE	(DDF)	1.9276
Matrix	LIFETIME IN MICROSECONDS		285
SOLID	R2 VALUE		0.9996
Batch Number	RANGE (HIGH OR LOW)		HIGH
191995001916	INSTRUMENT RESULT	(IR)	9.93E-04
Result	CONCENTRATION IN SOLUTION (g/L)	(CONC)	9.93E-02
1	SPIKE VALUE	(SV)	5.09E-02
Sample Prep	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (	(OSV)	0.10
Sample Number	SAMPLE RESULT (g/L) FROM SAMPLE FORM	(SR)	4.95E-02
S95T000848	% RECOVERY		9.78E+01
Instrument Code			
AL10721			
Prepared By			
slh			
Chemist			
jls			
Analyst			
dcd			
Date Complete			
07/31/95			
Analysis Date			
07/30/95			
Analysis Time			
10:00 AM			
Sample Point			
BX-109			

Concentration = IR * DF * PF

% Recovery = (CONC - SR * SS) * OSV / IV / SV * 100

Analyst:	dcd	Date:	31-Jul-95
Signature of Chemist:	jls	Date:	7/31/95

SPIKE.WB1 REV 1.0 SPIKE

LABCORE Data Entry Template for Worklist# 1954

Analyst: R McCown **Instrument:** U01 ALD731 **Book #** 138852

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: 1-10 ml sample prep \ jls

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	SOLID		7.94E-05	N/A	ug/g
		2	BLNK-PREP				U-02	SOLID			N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T001329	0	F	U-02	SOLID	N/A			ug/g
95000057	BX-109	4	DUP	S95T001329	0	F	U-02	SOLID			N/A	ug/g

Final page for worklist # 1954

R McCown 9/15/95
Analyst Signature Date

Analyst Signature 9/15/95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

```
Sample ID  138B52                          Date/Time  09/15/95/05:13:26
Description  STANDARD                      Cal Y=7.94E+07X+210.215
Ref. Ratio 1.025                          Intensity 5461       (t=  39      us)
Laser Pulses 500                          Conc 7.94E-05 + 2.54E-06 G/L
Lifetime 249 + .888 us                    Dilution Factor 1 mL/mL
R2 .9995
Integrated 93901            FINAL RESULT  7.94E-05 + 2.54E-06 G/L
Range: HIGH
```

10ML TO 10ML SAMPLE PREP RJMcCown 9/15/95

```
Sample ID  WL 1954                         Date/Time  09/15/95/05:18:11
Description  PREP BLANK                    Cal Y=7.94E+07X+210.215
Ref. Ratio 1.019                          Intensity 6          (t=  39      us)
Laser Pulses 500                          Conc -2.65E-06 + 8.34E-08 G/L
Lifetime  +  us                           Dilution Factor 1 mL/mL
R2
Integrated 0                FINAL RESULT  -2.65E-06 + 8.34E-08 G/L
Range: HIGH
Sample <= Blank
```

```
Sample ID  WL 1954                         Date/Time  09/15/95/05:18:51
Description  PREP BLANK                    Cal Y=6.33E+09X+4.88E-04
Ref. Ratio 1.036                          Intensity 592        (t=  39      us)
Laser Pulses 500                          Conc 9.74E-08 + 2.97E-09 G/L
Lifetime 346 + 8.991 us                   Dilution Factor 1 mL/mL
R2 .9718
Integrated 11830            FINAL RESULT  9.74E-08 + 2.97E-09 G/L
Range: LOW
```

1ML TO 10ML SAMPLE PREP

```
Sample ID  S95T001329                      Date/Time  09/15/95/05:23:01
Description  SAMPLE                       Cal Y=7.94E+07X+210.215
Ref. Ratio 1.03                           Intensity 49580      (t= 416      us)
Laser Pulses 500                          Conc 3.82E-03 + 1.24E-04 G/L
Lifetime 235 + .571 us                    Dilution Factor 1 mL/mL
R2 .9997
Integrated 836801           FINAL RESULT  3.82E-03 + 1.24E-04 G/L
Range: HIGH
```

1ML TO 10ML SAMPLE PREP

```
Sample ID  S95T001329                      Date/Time  09/15/95/05:28:20
Description  SAMPLE DUPLICATE              Cal Y=7.94E+07X+210.215
Ref. Ratio 1.02                           Intensity 51410      (t= 442      us)
Laser Pulses 500                          Conc 3.94E-03 + 1.27E-04 G/L
Lifetime 251 + .546 us                    Dilution Factor 1 mL/mL
R2 .9998
Integrated 911143           FINAL RESULT  3.94E-03 + 1.27E-04 G/L
Range: HIGH
```

1ML TO 10ML SAMPLE PREP

BEST AVAILABLE COPY

Background Report

Background for LOW Range
Laser Pulses 500

First Time Gate Used (sample) 4
Date/Time 09/15/95/04:58:25

Reference	Sample
Intensity 9606 Lifetime 268.76 + 2.2 us R2 .99714 Intercept 10741.47	Intensity 660

Background Report

Background for HIGH Range
Laser Pulses 500

First Time Gate Used (sample) 4
Date/Time 09/15/95/04:59:19

Reference	Sample
Intensity 9834 Lifetime 268.47 + 1.94 us R2 .99778 Intercept 10844.38	Intensity 11

Standard Report

Standard for HIGH Range - 9.90E-04 G/L
Laser Pulses 500

Date/Time 09/15/95/05:00:52

Reference	Standard
Intensity 9698 Lifetime 268.59 + 1.74 us R2 .99819 Intercept 10894.87	Intensity 51546 Lifetime 295.71 + 1.26 us R2 .9992 Intercept 78606.16 + 2.80E+02

Standard Report

Standard for HIGH Range - 4.98E-04 G/L
Laser Pulses 500

Date/Time 09/15/95/05:02:18

Reference	Standard
Intensity 9821 Lifetime 270.09 + 2.03 us R2 .9976 Intercept 10897.38	Intensity 35760 Lifetime 284.76 + 1.5 us R2 .9988 Intercept 40175.79 + 2.00E+02

Standard Report

Standard for LOW Range - 2.48E-06 G/L
Laser Pulses 500

Date/Time 09/15/95/05:03:38

Reference	Standard
Intensity 9855 Lifetime 268.56 + 2.08 us R2 .99742	Intensity 13733 Lifetime 299.94 + 1.2 us R2 .9993

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

STD			STANDARD
Work Year	STANDARD BOOK #		138B52
1954	VOLUME OF SAMPLE (mL)	(SS)	1.00
Set Code	DILUTION FACTOR OF SAMPLE	(DF)	1.00
	PREPARATION FACTOR OF SAMPLE	(PF)	1.00
Matrix	LIFETIME IN MICROSECONDS		249.00
LIQUID	R2 VALUE		0.9950
Batch Number	RANGE (HIGH OR LOW)		HIGH
95001968	INSTRUMENT UNCERTAINTY	(IU)	2.54E-06
Sample Count	INSTRUMENT RESULT	(IR)	7.94E-05
0	DETECTION LEVEL (µg/mL)		3.70E-05
Sample Type			
N/A	RESULT (µg/mL)		7.94E-02
Sample #	VALUE OF STANDARD		8.44E-02
STD 1954	%RECOVERY		94.08
Instrument Code	RELATIVE % UNCERTAINTY		3.2
UO1			
Prepared by			
GJH	Result = DF * PF * IR * 1000		
Chemist			
JLS	Detection Level = 3.70 E-08 * DF * PF * 1000		
Analyst			
PJM	% Recovery = Result / Value of Standard * 100		
Date Complete			
09/15/95	Relative % Uncertainty = IU / IR * 100		
Analysis Date			
09/15/95			
Analysis Time			
01:26 PM			
Sample Point			
BX-109			

Analyst:	Dan Hammond	PJM	Date:	15-Sep-95
Signature of Chemist:	Jennifer L Sargent	JLS	Date:	9/18/95

STANDARD.WB1 REV 1.1 925009ML

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			BLANK
BLNK-PREP	VOLUME OF SAMPLE (mL)	(SS)	1.00
Year	DILUTION FACTOR OF SAMPLE	(DF)	1.00
1954	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
Prep Code	DIGEST FACTOR	(Dg/L)	2.2140
	LIFETIME IN MICROSECONDS		346.00
Matrix	R2 VALUE		0.9718
SOLID	RANGE (HIGH OR LOW)		LOW
Alpha Limit	INSTRUMENT UNCERTAINTY	(IU)	2.97E-09
95001968	INSTRUMENT RESULT	(IR)	9.74E-08
Rerun	DETECTION LEVEL µg/g		1.67E-01
0			
Sample Prep	CONCENTRATION IN SOLUTION (g/L)		9.74E-07
N/A	RESULT (µg/g)		4.40E-01
Sample #	RELATIVE % UNCERTAINTY		3.0
BLK 1954			
Instrument Code			
UO1			
Prepared By	Result = Conc. in Solution (g/L) * 1000000 / Dg/L		
GJH			
Chemist	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
JLS			
Analyst	Relative % Uncertainty = IU / IR * 100		
PJM			
Date Complete	Concentration in Solution (g/L) = IR * DF * PF		
09/15/95			
Analysis Date			
09/15/95			
Analysis Time			
05:18 AM			
Sample Code			
BX-109			

Analyst:		PJM	Date:	15-Sep-95
Signature of Chemist:		JLS	Date:	9/18/95

BLANK.WB1 REV 1.1 925009ML

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

SAMPLE			SAMPLE
Volume	VOLUME OF SAMPLE (mL)	(SS)	1.00
1954	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Prep Factor	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
	DIGEST FACTOR	(Dg/L)	2.2140
Matrix	LIFETIME IN MICROSECONDS		235.00
SOLID	R2 VALUE		0.9997
Sample Number	RANGE (HIGH OR LOW)		HIGH
95001968	INSTRUMENT UNCERTAINTY	(IU)	1.24E-04
Analyte	INSTRUMENT RESULT	(IR)	3.82E-03
0	DETECTION LEVEL µg/g		1.67E-01
Sample Prep			
FUSION01	CONCENTRATION IN SOLUTION (g/L)		3.82E-02
Sample #	RESULT (µg/g)		1.73E+04
S95T001329	RELATIVE % UNCERTAINTY		3.2
Instrument Code			
UO1			
Prepared By	Result = Conc. in Solution (g/L) * 1000000 / Dg/L		
GJH			
Chem ID	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
JLS			
Analyst	Relative % Uncertainty = IU / IR * 100		
PJM			
Data Complete	Concentration in Solution (g/L) = IR * DF * PF		
09/15/95			
Analysis Date			
09/15/95			
Analysis Time			
05:28 AM			
Sample Point			
BX-109			

Analyst:		PJM	Date:	15-Sep-95
Signature of Chemist:		JLS	Date:	9/18/95

SAMPLE.WB1 REV 1.1 925009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

DUP			DUP
Worklist	VOLUME OF SAMPLE (mL)	(SS)	1.00
1954	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Sample Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
	DIGEST FACTOR	(Dg/L)	2.2676
Matrix	LIFETIME IN MICROSECONDS		251.00
SOLID	R2 VALUE		0.9998
Batch Number	RANGE (HIGH OR LOW)		HIGH
95001968	INSTRUMENT UNCERTAINTY	(IU)	1.27E-04
Reqn#	INSTRUMENT RESULT	(IR)	3.94E-03
0	DETECTION LEVEL µg/g		1.63E-01
Sample Type			
FUSION01	CONCENTRATION IN SOLUTION (g/L)		3.94E-02
Sample #	RESULT (µg/g)		1.74E+04
S95T001329	RELATIVE % UNCERTAINTY		3.2
Instrument Code			
UO1			
Prepared By	Result = Conc. in Solution (g/L) * 1000000 / Dg/L		
GJH			
Chemist	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
JLS			
Analyst	Relative % Uncertainty = IU / IR * 100		
PJM			
Date Complete	Concentration in Solution (g/L) = IR * DF * PF		
09/15/95			
Analysis Date			
09/15/95			
Analysis Time			
05:28 AM			
Sample Point			
BX-109			

Analyst:		PJM	Date:	15-Sep-95
Signature of Chemist:		JLS	Date:	9/18/95

SAMPLE.WB1 REV 1.1 925009ML

1185

LABCORE Data Entry Template for Worklist# 2306

Analyst: RJ McCown **Instrument:** U01 ALI0721 **Book #** 138B52

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: 1-10 ml sample prep / 1 ml sample size / jls

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@U-01	U-02	SOLID			N/A	ug/g
		2	BLNK-PREP				@U-01	U-02	SOLID			N/A	ug/g
95000059	BX-109	3	SAMPLE	S95T001471	0	F	@U-01	U-02	SOLID	N/A			ug/g
95000059	BX-109	3	SAMPLE	S95T001471	0	F	@U-01	U-02E	SOLID	N/A			% Inst Error
95000059	BX-109	4	DUP	S95T001471	0	F	@U-01	U-02	SOLID			N/A	ug/g
95000059	BX-109	5	SPK	S95T001471	0	F	@U-01	U-02	SOLID			N/A	ug/g

Final page for worklist # 2306

RJ McCown 9/15/95
Analyst Signature Date

RJ Stark 9-15-95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

STD			STANDARD
Work Set #	STANDARD BOOK #		138B52
2306	VOLUME OF SAMPLE (mL)	(SS)	1.00
Method	DILUTION FACTOR OF SAMPLE	(DF)	1.00
@U-01	PREPARATION FACTOR OF SAMPLE	(PF)	1.00
Matrix	LIFETIME IN MICROSECONDS		246.00
LIQUID	R2 VALUE		0.9995
Batch Number	RANGE (HIGH OR LOW)		HIGH
95002449	INSTRUMENT UNCERTAINTY	(IU)	2.66E-06
Dilution Ratio	INSTRUMENT RESULT	(IR)	8.41E-05
0	DETECTION LEVEL (µg/mL)		3.70E-05
Subsample Prep			
N/A	RESULT (µg/mL)		8.41E-02
Sample #	VALUE OF STANDARD		8.44E-02
STD-2306	%RECOVERY		99.64
Instrument Code	RELATIVE % UNCERTAINTY		3.2
AL10721			
Prepared By			
RTS			
Chemist			
JLS			
Analyst			
PJM			
Date Complete			
09/15/95			
Analysis Date			
09/15/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Result = DF * PF * IR * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

Relative % Uncertainty = IU / IR * 100

Analyst: RT Stark		PJM	Date: 15-Sep-95
Signature of Chemist: JL Sluiter		JLS	Date: 9/16/95

STANDARD.WB1 REV 1.1 925009ML

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

BLNK-PREP			BLANK
Volume	VOLUME OF SAMPLE (mL)	(SS)	1.00
2306	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Prep Factor	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
@U-01	DIGEST FACTOR	(Dg/L)	1.0436
Lifetime	LIFETIME IN MICROSECONDS		277.00
SOLID	R2 VALUE		0.9962
Range (H or L)	RANGE (HIGH OR LOW)		LOW
95002449	INSTRUMENT UNCERTAINTY	(IU)	5.99E-09
Result	INSTRUMENT RESULT	(IR)	3.46E-07
0	DETECTION LEVEL µg/g		3.55E-01
Sample Type			
N/A	CONCENTRATION IN SOLUTION (g/L)		3.46E-06
Sample ID	RESULT (µg/g)		3.32E+00
BLANK-2306	RELATIVE % UNCERTAINTY		1.7
Instrument Used			
AL10721			
Prepared By	Result = Conc. in Solution (g/L) * 1000000 / Dg/L		
RTS			
Data Entered By	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
JLS			
Analyst	Relative % Uncertainty = IU / IR * 100		
PJM			
Date Complete	Concentration in Solution (g/L) = IR * DF * PF		
09/15/95			
Analysis Date			
09/15/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Analyst: PJM Date: 15-Sep-95

Signature of Chemist: JLS Date: 9/15/95

BLANK.WB1 REV 1.1 925009ML

1188

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

SAMPLE			SAMPLE
2306	VOLUME OF SAMPLE (mL)	(SS)	1.00
@U-01	DILUTION FACTOR OF SAMPLE	(DF)	1.00
SOLID	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
95002449	DIGEST FACTOR	(Dg/L)	1.0436
0	LIFETIME IN MICROSECONDS		247.00
FUSION01	R2 VALUE		0.9997
S95T001471	RANGE (HIGH OR LOW)		HIGH
AL10721	INSTRUMENT UNCERTAINTY	(IU)	6.13E-05
RTS	INSTRUMENT RESULT	(IR)	1.93E-03
JLS	DETECTION LEVEL µg/g		3.55E-01
PJM			
09/15/95	CONCENTRATION IN SOLUTION (g/L)		1.93E-02
09/15/95	RESULT (µg/g)		1.85E+04
06:00 AM	RELATIVE % UNCERTAINTY		3.2
BX-109			

Result = Conc. in Solution (g/L) * 1000000 / Dg/L

Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF

Relative % Uncertainty = IU / IR * 100

Concentration in Solution (g/L) = IR * DF * PF

Analyst:		PJM	Date:	15-Sep-95
Signature of Chemist:		JLS	Date:	9/15/95

SAMPLE.WB1 REV 1.1 925009ML

WORKBOOK PAGE: DUP4

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

DUP			DUP
Vial #	VOLUME OF SAMPLE (mL)	(SS)	1.00
2306	DILUTION FACTOR OF SAMPLE	(DF)	1.00
U Code	PREPARATION FACTOR OF SAMPLE	(PF)	10.00
@U-01	DIGEST FACTOR	(Dg/L)	1.0608
Type	LIFETIME IN MICROSECONDS		241.00
SOLID	R2 VALUE		0.9998
Batch Number	RANGE (HIGH OR LOW)		HIGH
95002449	INSTRUMENT UNCERTAINTY	(IU)	6.26E-05
Run #	INSTRUMENT RESULT	(IR)	1.98E-03
0	DETECTION LEVEL µg/g		3.49E-01
Sample Prep			
FUSION01	CONCENTRATION IN SOLUTION (g/L)		1.98E-02
Sample ID	RESULT (µg/g)		1.87E+04
S95T001471	RELATIVE % UNCERTAINTY		3.2
Instrument Code			
AL10721			
Prepared By	Result = Conc. in Solution (g/L) * 1000000 / Dg/L		
RTS			
Chemist	Detection Level = 3.70 E-08 * DF * PF * 1000000/ DF		
JLS			
Analyst	Relative % Uncertainty = IU / IR * 100		
PJM			
Date Complete	Concentration in Solution (g/L) = IR * DF * PF		
09/15/95			
Analysis Date			
09/15/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

Analyst:		PJM	Date:	15-Sep-95
Signature of Chemist:		JLS	Date:	9/15/95

SAMPLE.WB1 REV 1.1 925009ML

WORKBOOK PAGE: SPIKE5

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

			SPIKE
SPK	SPIKE BOOK #		146B38
	VOLUME OF SAMPLE + SPIKE (mL)	(SS)	1.00
2306	DILUTION FACTOR OF SAMPLE + SPIKE	(DF)	1.00
	PREPARATION FACTOR OF SAMPLE + SPIKE	(PF)	10.00
@U-01	DIGEST FACTOR OF SAMPLE	(DDF)	1.0436
	LIFETIME IN MICROSECONDS		248.00
SOLID	R2 VALUE		0.9996
	RANGE (HIGH OR LOW)		7.41E-05
95002449	INSTRUMENT RESULT	(IR)	2.31E-03
	CONCENTRATION IN SOLUTION (g/L)	(CONC)	2.31E-02
0	SPIKE VALUE (g/L)	(SV)	5.09E-02
	INITIAL VOLUME OF SPIKE (mL)	(IV)	0.10
FUSION01	ORIGINAL SAMPLE VOLUME BEFORE PREP (mL)	(OSV)	1.00
	CONCENTRATION IN SOLUTION (g/L) FROM SAMPLE FO	(SR)	1.93E-02

S95T001471

AL10721

Concentration = IR * DF * PF

RTS

QC Actual (µg/mL) = SV (g/L) * 1000

JLS

QC Found (µg/mL) = (CONC - SR) * OSV / IV * 1000

PJM

% Recovery = QC FOUND / QC ACTUAL

09/15/95

09/15/95

	QC ACTUAL	=	5.09E+01	µg/mL
	QC FOUND	=	3.80E+01	µg/mL
06:00 AM	% SPIKE RECOVERY	=	74.7%	

BX-109

Analyst: RT Stark PJM Date: 15-Sep-95

Signature of Chemist: JL Sloan JLS Date: 9/15/95

SPIKE.WB1 REV 1.1 925009ML

1191

Sample ID 138852
Description STANDARD
Ref. Ratio 1
Laser Pulses 500
Lifetime 246 + .836 us
R2 .9995
Integrated 99299
Range: HIGH

Date/Time 09/15/95/05:38:59
Cal Y=8.34E+07X-3.17E+01
Intensity 5811 (t= 39 us)
Conc 8.41E-05 + 2.66E-06 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 8.41E-05 + 2.66E-06 G/L

10 mL TO 10 mL SAMPLE PREP RH McCown 9/15/95

Sample ID WL 2306
Description PREP BLANK
Ref. Ratio .997
Laser Pulses 500
Lifetime 249 + 27.097 us
R2 .832
Integrated 307
Range: HIGH

Date/Time 09/15/95/05:41:39
Cal Y=8.34E+07X-3.17E+01
Intensity 28 (t= 39 us)
Conc 7.44E-07 + 6.44E-08 G/L
Dilution Factor 1 mL/mL

FINAL RESULT 7.44E-07 + 6.44E-08 G/L

BEST AVAILABLE COPY

R.L. McCown 9/15/95

Sample ID WL 2306 — Date/Time 09/15/95/05:42:24
Description PREP BLANK — Cal Y=6.51E+09X0
Ref. Ratio 1.018 — Intensity 2018 (t= 39 us)
Laser Pulses 500 — Conc 3.46E-07 + 5.99E-09 G/L
Lifetime 277 + 2.605 us — Dilution Factor 1 mL/mL
R2 .9962
Integrated 35888 — FINAL RESULT 3.46E-07 + 5.99E-09 G/L
Range: LOW 1ML TO 10ML SAMPLE PREP

Sample ID S95T001471 — Date/Time 09/15/95/05:45:11
Description SAMPLE — Cal Y=8.34E+07X-3.17E+01
Ref. Ratio 1 — Intensity 52998 (t= 260 us)
Laser Pulses 500 — Conc 1.93E-03 + 6.13E-05 G/L
Lifetime 247 + .646 us — Dilution Factor 1 mL/mL
R2 .9997
Integrated 939820 — FINAL RESULT 1.93E-03 + 6.13E-05 G/L
Range: HIGH 1ML TO 10ML SAMPLE PREP

Sample ID S95T001471 — Date/Time 09/15/95/05:47:51
Description SAMPLE DUPLICATE — Cal Y=8.34E+07X-3.17E+01
Ref. Ratio 1.004 — Intensity 52835 (t= 260 us)
Laser Pulses 500 — Conc 1.98E-03 + 6.26E-05 G/L
Lifetime 241 + .524 us — Dilution Factor 1 mL/mL
R2 .9998
Integrated 917550 — FINAL RESULT 1.98E-03 + 6.26E-05 G/L
Range: HIGH 1ML TO 10ML SAMPLE PREP

Sample ID S95T001471 — Date/Time 09/15/95/05:50:20
Description SAMPLE SPIKE #146838 .100 mL — Cal Y=8.34E+07X-3.17E+01
Ref. Ratio 1.008 — Intensity 52153 (t= 312 us)
Laser Pulses 500 — Conc 2.31E-03 + 7.41E-05 G/L
Lifetime 248 + .732 us — Dilution Factor 1 mL/mL
R2 .9996
Integrated 919295 — FINAL RESULT 2.31E-03 + 7.41E-05 G/L
Range: HIGH 1ML TO 10ML SAMPLE PREP

BEST AVAILABLE COPY

Background Report

Background for LOW Range	First Time Gate Used (sample) 4
Laser Pulses 500	Date/Time 09/15/95/05:32:35

Reference	Sample
Intensity 10066	Intensity 642
Lifetime 266.96 + 2.13 us	
R2 .99727	
Intercept 11101.84	

BEST AVAILABLE COPY

BEST AVAILABLE COPY

Background Report

Background for HIGH Range	First Time Gate Used (sample) 4
Laser Pulses 500	Date/Time 09/15/95/05:33:32

Reference	Sample
Intensity 10050	Intensity 6
Lifetime 264.94 + 2.07 us	
R2 .99738	
Intercept 11342.65	

Standard Report

Standard for HIGH Range - 9.90E-04 G/L	
Laser Pulses 500	Date/Time 09/15/95/05:34:16

Reference	Standard
Intensity 10304	Intensity 53326
Lifetime 267.2 + 2.13 us	Lifetime 292.34 + 1.03 us
R2 .99727	R2 .9995
Intercept 11256.42	Intercept 82569.99 + 2.87E+02

Standard Report

Standard for HIGH Range - 4.98E-04 G/L	
Laser Pulses 500	Date/Time 09/15/95/05:35:22

Reference	Standard
Intensity 10227	Intensity 36148
Lifetime 266.59 + 1.89 us	Lifetime 281.61 + 1.41 us
R2 .99786	R2 .9989
Intercept 11281.96	Intercept 41439.52 + 2.04E+02

Standard Report

Standard for LOW Range - 2.48E-06 G/L	
Laser Pulses 500	Date/Time 09/15/95/05:36:31

Reference	Standard
Intensity 10363	Intensity 14304
Lifetime 266.38 + 2.17 us	Lifetime 300.64 + 1.41 us
R2 .99714	R2 .9991
Intercept 11316.67	Intercept 16141.05 + 1.27E+02

THE FOLLOWING ANALYSES WERE RERUN AND INCLUDED IN THE DATA PACKAGE, BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

LABCORE Data Entry Template for Worklist# 1775

Analyst: DPB **Instrument:** U01 _____ **Book #** ~~ENV STD~~ DPB 7/11/95
126B52

Method: LA-925-009 Rev/Mod A-1

Worklist Comment: SEE CHEMIST FOR SAMPLE SIZE / JLS

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				U-02	LIQUID	_____	_____	N/A	ug/mL
		2	BLNK-PREP				U-02	LIQUID	_____	_____	N/A	ug/mL
95000059	BX-109	3	SAMPLE	S95T000784	0	D	U-02	LIQUID	N/A	_____	_____	ug/mL
95000059	BX-109	4	DUP	S95T000784	0	D	U-02	LIQUID	_____	_____	N/A	ug/mL
95000059	BX-109	5	SPK	S95T000784	0	D	U-02	LIQUID	_____	_____	N/A	ug/mL

Final page for worklist # 1775

Donna R. Bromley 7/14/95
Analyst Signature Date

J G Griffin 7-14-95
Analyst Signature Date

DATA NOT USED IN PACKAGE

Spike # 46B44 is for U232.
I believe this is the wrong type of spike for this procedure, it did not show up on the reading. Also the boildowns were done in 4H hood 7. This hood is for ENVI only, & is a low level hood. "U" samples should not be boiled down in this hood.
Dan Griffin

Data Entry Comments: Standard name: ENV STD; Book # 126B52
.1 mL sample → 10 mL sample prep; spike: .1 mL spike + .1 mL sample → 10 mL sample prep
U232 spike # 46B44

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Sample ID PREP-BLANK
Description BX-109
Ref. Ratio .902
Laser Pulses 500
Lifetime 258 + 1.465 us
R2 .9986
Integrated 82617
Range: LOW

Date/Time 07/14/95/07:42:53
Cal Y=3.10E+09X0
Intensity 4736 (t= 39 us)
Conc 1.79E-06 + 2.39E-08 ug/L
Dilution Factor 1 mL/mL

FINAL RESULT 1.79E-06 + 2.39E-08 ug/L

Sample ID 126852
Description LMCS
Ref. Ratio .86
Laser Pulses 500
Lifetime 238 + 1.441 us
R2 .9984
Integrated 54831
Range: HIGH

Date/Time 07/14/95/07:39:24
Cal Y=4.29E+07X+201.295
Intensity 3451 (t= 39 us)
Conc 8.77E-05 + 2.89E-06 ug/L
Dilution Factor 1 mL/mL

FINAL RESULT 8.77E-05 + 2.89E-06 ug/L

Sample ID S95T000784
Description BX-109
Ref. Ratio .873
Laser Pulses 500
Lifetime 253 + 1.321 us
R2 .9988
Integrated 64887
Range: HIGH

Date/Time 07/14/95/07:46:06
Cal Y=4.29E+07X+201.295
Intensity 3772 (t= 39 us)
Conc 9.87E-05 + 3.21E-06 ug/L
Dilution Factor 1 mL/mL

FINAL RESULT 9.87E-05 + 3.21E-06 ug/L

DATA NOT USED IN PACKAGE

Sample ID S95T000784-DUP
Description BX-109
Ref. Ratio .884
Laser Pulses 500
Lifetime 288 + 1.438 us
R2 .9989
Integrated 65807
Range: HIGH

Date/Time 07/14/95/07:50:12
Cal Y=4.29E+07X+201.295
Intensity 3541 (t= 39 us)
Conc 8.87E-05 + 2.86E-06 ug/L
Dilution Factor 1 mL/mL

FINAL RESULT 8.87E-05 + 2.86E-06 ug/L

Sample ID S95T000784-SPK
Description BX-109
Ref. Ratio .888
Laser Pulses 500
Lifetime 283 + 1.297 us
R2 .9991
Integrated 68848
Range: HIGH

Date/Time 07/14/95/07:52:44
Cal Y=4.29E+07X+201.295
Intensity 3656 (t= 39 us)
Conc 9.45E-05 + 3.04E-06 ug/L
Dilution Factor 1 mL/mL

FINAL RESULT 9.45E-05 + 3.04E-06 ug/L

WORKBOOK PAGE: STD1

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
STD
Work List
1775
Test Code
U-02
Matrix
LIQUID
Batch Number
177595001734
Rerun #
0
Sample Prep
N/A
Sample #
WL775
Instrument Code
Prepared By
JLS
Chemist
JLS
Analyst
DGG
Date Complete
07/19/95
Analysis Date
07/14/95
Analysis Time
06:00 AM
Sample Point
BX-109

		STANDARD
STANDARD BOOK #		126B52
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	1.00
LIFETIME IN MICROSECONDS		238.00
R2 VALUE		0.9984
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	2.89E-06
INSTRUMENT RESULT	(IR)	8.77E-05
DETECTION LEVEL (µg/mL)		3.70E-05
UNCERTAINTY (µg/mL)		2.89E-03
RESULT (µg/mL)		8.77E-02
VALUE OF STANDARD		8.43E-02
%RECOVERY		104.03

Result = DF * PF * IR * 1000

Uncertainty = IU * DF * PF * 1000

Detection Level = 3.70 E-08 * DF * PF * 1000

% Recovery = Result / Value of Standard * 100

DATA NOT USED IN PACKAGE

Analyst: DGG Date: 19-Jul-95

Signature of Chemist: JLS Date: 7/19/95

STANDARD.WB1 REV 1.0 925009ML

WORKBOOK PAGE: BLANK2

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type
BLNK-PREP
Work List
1775
Test Code
U-02
Matrix
LIQUID
Batch Number
177595001734
Rerun
0
Sample Prep
N/A
Sample #
WL1775
Instrument Code
Prepared By
JLS
Chemist
JLS
Analyst
DGG
Date Complete
07/19/95
Analysis Date
07/14/95
Analysis Time
06:00 AM
Sample Point
BX-109

		BLANK
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	100.00
DIGEST DILUTION FACTOR	(DDF)	100.0000
LIFETIME IN MICROSECONDS		258.00
R2 VALUE		0.9986
RANGE (HIGH OR LOW)		LOW
INSTRUMENT UNCERTAINTY	(IU)	2.39E-08
INSTRUMENT RESULT	(IR)	1.79E-06
DETECTION LEVEL (µg/mL)		3.70E-01
UNCERTAINTY (µg/mL)		2.39E-01
RESULT (µg/mL)		1.79E+01

Result = DF * PF * DDF * IR * 1000

Uncertainty = IU * DF * PF * DDF * 1000

Detection Level = 3.70 E-08 * DF * PF * DDF * 1000

DATA NOT USED IN PACKAGE

Analyst:	DGG	Date:	19-Jul-95
Signature of Chemist:	JLS	Date:	7/19/95

BLANK.WB1 REV 1.0 925009ML

1200

WORKBOOK PAGE: SAM3

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type			
SAMPLE			SAMPLE
Work List	VOLUME OF SAMPLE (mL)	(SS)	1.00
1775	DILUTION FACTOR OF SAMPLE	(DF)	1.00
Test Code	PREPARATION FACTOR OF SAMPLE	(PF)	100.00
U-02	DIGEST DILUTION FACTOR	(DDF)	100.0000
Matrix	LIFETIME IN MICROSECONDS		253.00
LIQUID	R2 VALUE		0.9988
Batch Number	RANGE (HIGH OR LOW)		HIGH
177595001734	INSTRUMENT UNCERTAINTY	(IU)	3.21E-06
Rerun #	INSTRUMENT RESULT	(IR)	9.87E-05
1	DETECTION LEVEL (µg/mL)		3.70E-01
Sample Prep	UNCERTAINTY (µg/mL)		3.21E+01
ACIDIL01			
Sample #	RESULT (µg/mL)		9.87E+02
S95T000784			
Instrument Code			
	Result = DF * PF * DDF * IR * 1000		
Prepared By			
JLS	Uncertainty = IU * DF * PF * DDF * 1000		
Chemist			
JLS	Detection Level = 3.70 E-08 * DF * PF * DDF * 1000		
Analyst			
DGG			
Date Complete			
07/19/95			
Analysis Date			
07/14/95			
Analysis Time			
06:00 AM			
Sample Point			
BX-109			

DATA NOT USED IN PACKAGE

Analyst:	DGG	Date:	19-Jul-95
Signature of Chemist:	JLS	Date:	7/19/95

SAMPLE.WB1 REV 1.0 925009ML

Uranium by Phosphorescence: LA-925-009 (A-1) LIQUID/SOLID

Type	
DUP	
Work List	
1775	
Test Code	
U-02	
Matrix	
LIQUID	
Batch Number	
177595001734	
Rerun #	
1	
Sample Prep	
ACIDIL01	
Sample #	
S95T000784	
Instrument Code	
Prepared By	
JLS	
Chemist	
JLS	
Analyst	
DGG	
Date Complete	
07/19/95	
Analysis Date	
07/14/95	
Analysis Time	
06:00 AM	
Sample Point	
BX-109	

		DUP
VOLUME OF SAMPLE (mL)	(SS)	1.00
DILUTION FACTOR OF SAMPLE	(DF)	1.00
PREPARATION FACTOR OF SAMPLE	(PF)	100.00
DIGEST DILUTION FACTOR	(DDF)	100.0000
LIFETIME IN MICROSECONDS		288.00
R2 VALUE		0.9989
RANGE (HIGH OR LOW)		HIGH
INSTRUMENT UNCERTAINTY	(IU)	2.66E-06
INSTRUMENT RESULT	(IR)	8.87E-05
DETECTION LEVEL (µg/mL)		3.70E-01
UNCERTAINTY (µg/mL)		2.86E+01
RESULT (µg/mL)		8.87E+02

Result = DF * PF * DDF * IR * 1000

Uncertainty = IU * DF * PF * DDF * 1000

Detection Level = 3.70 E-08 * DF * PF * DDF * 1000

DATA
NOT USED
IN PACKAGE

Analyst:	DGG	Date:	19-Jul-95
Signature of Chemist:	JLS	Date:	7/19/95

SAMPLE.WB1 REV 1.0 925009ML

DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	Data Assessment and Interpretation	Date: 04/10/96
Project Title/Work Order **WHC-SD-WM-DP-154, REV. 0, "Final Report for Tank 241-BX-109, Push Mode Cores 84 and 85."**		EDT NO.: 614782 ECN NO.: N/A

Name	MSIN	Text With all Attach	EDT/ECN ONLY
Pacific Northwest Laboratory			
J. R. Gormsen	K7-28		X
S. J. Harris	K7-22	X	
K. L. Silvers	P7-27		X
U.S. Department of Energy, RL			
C. A. Babel	S7-54	X	
Westinghouse Hanford Company			
J. N. Appel	G3-21		X
H. Babad	S7-30	X	
S. D. Estey	R2-11	X	
G. D. Forehand	S7-31		X
V. W. Hall	T6-03	X	
D. C. Hetzer	S6-31		X
J. E. Hyatt	S3-31	X	
N. W. Kirch	R2-11	X	
M. J. Kupfer	H5-49	X	
J. E. Meacham	S7-15	X	
K. L. Powell	T6-04		X
J. B. Schaffer (SD COV SHT, DST SHT, ROR)	R2-12		X*
R. D. Schreiber	R2-12	X	
L. W. Shelton	H5-49	X	
M. J. Sutey	T4-07	X	
T. T. Tran	B1-44	X	
J. A. Voogd	H5-03		X
L. R. Webb (SD COV SHT, DST SHT, ROR)	T6-06		X*
Central Files	A3-88	2	
EDMC	H6-08	X	
LTIC	T6-03		X
U. S. Department of Energy			
Jim Poppiti 12800 Middlebrook Rd. Trevion II, EM-36 Germantown, MD 20874			X

* Need only releasing paperwork, not a copy of the released document. Doc advanced

*** RMIS View/Print Document Cover Sheet ***

This document was retrieved from the Documentation and Records Management (DRM) ISEARCH System. It is intended for Information only and may not be the most recent or updated version. Contact a Document Service Center (see Hanford Info for locations) if you need additional retrieval information.

Accession #: D196077752

Document #: SD-WM-DP-154

Title/Desc:
FINAL REPORT FOR TANK 241BX109 PUSH MODE CORES 84 & 85 [SEC 1 OF 2]

Pages: 601

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-154

Section 1 **of** 2

Title: Final Report for Tank 241BX109 Push Mode Cores 84 & 85

Date: 4/12/96 **Revision:** A000 / ~~Tank~~ Project: TFARM

Originator: Schreiber RD
Co: WHC

Recipient:
Co:

References: EDT-614782

Sta 5 APR 12 1996 (12) **ENGINEERING DATA TRANSMITTAL**

Page 1 of 1

1. EDT No. 614782

2. To: (Receiving Organization)	3. From: (Originating Organization)	4. Related EDT No.:
Distribution	Data Assessment & Interpretation	N/A
5. Proj./Prog./Dept./Div.:	**6. Cog. Engr.:**	**7. Purchase Order No.:**
Tank 241-BX-109/Waste Management/DA&I/Characterization Technical Basis	Ruth D. Schreiber	N/A
8. Originator Remarks:		**9. Equip./Component No.:**
This document is being released into the supporting document system for retrievability purposes.		N/A
		10. System/Bldg./Facility: N/A
11. Receiver Remarks:		**12. Major Assm. Dwg. No.:**
For release.		N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: 04/11/96

15. DATA TRANSMITTED

(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Designator	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
1	WHC-SD-WM-DP-154	N/A	0	Final Report for Tank 241-BX-109, Push Mode Cores 84 and 85	Q	2	1	1

16. KEY

Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 4. Review 2. Release 5. Post-Review 3. Information 6. Dist. (Receipt Acknow. Required)	1. Approved 4. Reviewed no/comment 2. Approved w/comment 5. Reviewed w/comment 3. Disapproved w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)

(G) Reason	(H) Disp.	(J) Name	(K) Signature	(M) MSIN	(L) Date	(J) Name	(K) Signature	(M) MSIN	(L) Date	(G) Reason	(H) Disp.
2	1	Cog.Eng. Ruth D. Schreiber	RD Schreiber		4/11/96	R2-12					
2	1	Cog. Mgr. J. G. Kristofzski	JG Kristofzski per telecon		4/11/96	R2-12					
2	1	QA E. W. Miller	E.W Miller		4/11/96	T6-03					
2	1	QA T. L. Tung	Tom Li Tung		4/11/96	T6-03					
2	1	Production, Planning & Control				4-11-96	T6-06				
2	1	L. M. Sasaki	RD Schreiber per telecon		4/11/96	R2-12					

18.	19.	20.	21. DOE APPROVAL (if required)
L. B. Webb Signature of EDT Originator 4/11/96 Date	N/A Authorized Representative for Receiving Organization Date	J.G. Kristofzski Cognizant Manager 4/11/96 Date	Ctrl. No. [ ] Approved [ ] Approved w/comments [ ] Disapproved w/comments

BD-7400-172-1

FINAL REPORT FOR TANK 241-BX-109, PUSH MODE CORES 84 AND 85.

R. D. Schreiber
Westinghouse Hanford Company, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-87RL10930

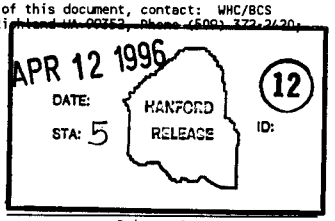
EDT/ECN: EDT-614782 UC: 2070
Org Code: 79400 Charge Code: MD378
B&R Code: EW 3120074 Total Pages: 1259

Key Words: Final Report for BX-109, Push Mode Cores 84 and 85, Tank 241-BX-109

Abstract: N/A

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

Printed in the United States of America. To obtain copies of this document, contact: WHC/BCS Document Control Services, P.O. Box 1970, Mailstop H6-08, Richland WA 99352, Phone (509) 372-2420; Fax (509) 376-4989.



Release Approval 4/12/96 Date

Release Stamp

Approved for Public Release

Westinghouse
Hanford Company

P.O. Box 1970 Richland, WA 99352

WHC-SD-WM-DP-154, REV. 0

ANALYTICAL SERVICES

FINAL REPORT FOR TANK 241-BX-109 PUSH MODE CORES 84 AND 85

Project Coordinator: RUTH D. SCHREIBER

Prepared for the U.S. Department of Energy
Office of Environmental Restoration
and Waste Management

by

Westinghouse Hanford Company
Box 1970
Richland, Washington

TABLE OF CONTENTS

Narrative 1

Sample Data Summary 14

Chain of Custody Forms 47

Photographs 58

Sample Handling 68

Extrusion Worklist # 1027 - Core 84, Segment 1 (704) 69
Extrusion Worklist # 1040 - Core 84, Segment 2 (705) 70
Extrusion Worklist # 1049 - Core 84, Segment 3 (708) 71
Extrusion Worklist # 1041 - Core 84, Segment 4 (706) 72
Extrusion Worklist # 1058 - Core 85, Segment 1 (725) 73
Extrusion Worklist # 1059 - Core 85, Segment 2 (728) 74
Extrusion Worklist # 1143 - Core 85, Segment 3 (814) 75
Extrusion Worklist # 1144 - Core 85, Segment 4 (815) 76
Extrusion Worklist # 1145 - Core 85, Field Blank (818) 77
Extrusion Worklist # 1962 - Core 84, Comp. Sampling (1325, 1327) . . 78
Extrusion Archive Worklist # 1264 (761, 764, 767) 79
Solid and Liquid Archive Worklist # 1275 (770, 773, 776, 779, 782, 788, 791, 838, 841, 849, 852, 785, 855, 858 80

Sample Preparations 82

Homogenization Worklist # 2041 - Core 85, Segment 1-4 (1468, 1472) . 83

Fusion Digestion Worklist # 1168 (760, 763) 84
Fusion Digestion Worklist # 1169 (766, 769) 85
Fusion Digestion Worklist # 1170 (772, 775) 86
Fusion Digestion Worklist # 1171 (778, 781) 87
Fusion Digestion Worklist # 1172 (787, 790) 88
Fusion Digestion Worklist # 1269 (837, 840) 89
Fusion Digestion Worklist # 1270 (848, 851) 90
Fusion Digestion Worklist # 1972 - Core 84 Comp (1329) 91
Fusion Digestion Worklist # 2062 (1471) 92

Water Digestion Worklist # 1498 (976, 977, 980) 93
Water Digestion Worklist # 1499 (981, 982, 983) 94
Water Digestion Worklist # 1501 (984, 994, 995) 95
Water Digestion Worklist # 1502 (996, 997, 998) 96
Water Digestion Worklist # 1503 (999, 1000) 97
Water Dilution Worklist # 1722 (993, 1001) 98

Acid Dilution Worklist # 1293 (784, 854, 857) 101

Inorganic Analyses 102

Differential Scanning Calorimetry (DSC)
DSC Worklist # 1220 (759, 762) 103
DSC Worklist # 1221 (765, 768) 111
DSC Worklist # 1222 (771, 774) 118
DSC Worklist # 1223 (777, 780) 126
DSC Worklist # 1224 (786, 789) 132
DSC Worklist # 1226 (836, 839) 140
DSC Worklist # 1228 (847, 850) 146
DSC Worklist # 1234 (783, 853) 154
DSC Worklist # 1235 (856) 161
DSC Worklist # 1922 (1325) 165
DSC Worklist # 2113 (1468) 169
DSC Worklist # 1506 (759, 762, 765, 768, 771, 774, 777) 173
DSC Worklist # 1507 (780, 786, 789, 836, 839, 847, 850) 174
DSC Worklist # 1518 (783, 853, 856) 175

Thermogravimetric Analysis (TGA)
TGA Worklist # 1241 (759, 762) 176
TGA Worklist # 1242 (765, 768) 182
TGA Worklist # 1243 (771, 774) 189
TGA Worklist # 1244 (777, 780) 197
TGA Worklist # 1245 (786, 789) 203
TGA Worklist # 1246 (836, 839) 211
TGA Worklist # 1247 (847, 850) 217
TGA Worklist # 1253 (783, 853) 225
TGA Worklist # 1254 (856) 234
TGA Worklist # 1924 (1325) 238
TGA Worklist # 2156 (1468) 242

Specific Gravity (SpG)
SpG Worklist # 4692 (783, 853) 246

Ion Chromatographic Analysis (IC)
IC Worklist # 1137 (816) 253
IC Worklist # 1625 (976, 977, 980) 263
IC Worklist # 1764 (976) 284
IC Worklist # 1776 (993, 1001) 295
IC Worklist # 1842 (996, 997) 312
IC Worklist # 1843 (999, 1000) 332
IC Worklist # 1862 (984, 994, 995) 349
IC Worklist # 1875 (981, 982, 983) 368
IC Worklist # 1978 (1326) 386
IC Worklist # 2104 (1469) 397

Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
ICP Worklist # 2109 (1445, 1470) 447.1

ICP Worklist # 1937 (1329) 454
ICP Worklist # 2046 (1471) 460
ICP Worklist # 1288 (784, 854, 857) 467
ICP Worklist # 1289 (816) 483
ICP Worklist # 1304 (760, 763) 491
ICP Worklist # 1305 (766, 769) 503
ICP Worklist # 1306 (772, 775) 514
ICP Worklist # 1307 (778, 781) 525
ICP Worklist # 1308 (787, 790) 537
ICP Worklist # 1309 (837, 840) 549
ICP Worklist # 1310 (848, 851) 561
ICP Worklist # 6952 (1568) 573

Total Inorganic Carbon/Total Organic Carbon Analysis (TICTOC)
TICTOC Worklist # 6968 (768) 573.6

Total Organic Carbon Analysis (TOC)
TOC Worklist # 1987 (1325) 574
TOC Worklist # 2731 (2283) 587
TOC Worklist # 3527 (759) 598

Radiochemical Analyses 611

Total Alpha Analysis (AT)
AT Worklist # 1198 (787, 790) 612
AT Worklist # 1278 (760, 763, 766, 769) 622
AT Worklist # 1285 (772, 775) 639
AT Worklist # 1316 (778, 781) 649
AT Worklist # 1344 (837, 840) 659
AT Worklist # 1345 (848, 851) 669
AT Worklist # 2128 (1471) 679
AT Worklist # 4593 (783, 853) 685

Total Alpha/Total Beta Analysis (AT/TB)
AT/TB Worklist # 2075 (1329) 695

Total Beta Analysis (TB)
TB Worklist # 2248 (1471) 705
TB Worklist # 6969 (769) 711

Gamma Energy Analysis (GEA)
GEA Worklist # 1467 (784, 854) 728
GEA Worklist # 1469 (766, 769) 759
GEA Worklist # 1470 (772, 775) 790
GEA Worklist # 1471 (778, 781) 821
GEA Worklist # 1472 (787, 790) 852
GEA Worklist # 1473 (837, 840) 883

GEA Worklist # 1474 (848, 851) 914
GEA Worklist # 1619 (760, 763) 944
GEA Worklist # 1991 (1329) 975
GEA Worklist # 2129 (1471) 996

Strontium Analysis (Sr-90)
Sr-90 Worklist # 1984 (1329) 1080
Sr-90 Worklist # 2154 (1471) 1087

Uranium-02 Analysis (U-02)
U-02 Worklist # 1690 (784, 854) 1094
U-02 Worklist # 1744 (760, 763) 1098
U-02 Worklist # 1745 (766, 769) 1110
U-02 Worklist # 1746 (772, 775) 1122
U-02 Worklist # 1747 (778, 781) 1133
U-02 Worklist # 1748 (787, 790) 1145
U-02 Worklist # 1749 (837, 840) 1156.1
U-02 Worklist # 1750 (848, 851) 1156.2
U-02 Worklist # 1884 (784) 1157
U-02 Worklist # 1917 (840) 1164
U-02 Worklist # 1919 (848) 1172
U-02 Worklist # 1954 (1329) 1179
U-02 Worklist # 2306 (1471) 1186

This document consists of pages 1 through 1202, and pages 183.1, 447.1, 572.1, 573.1 - 573.19, 711.1 - 711.8, 931.1, 1085.1, 1086.1 - 1086.5, 1156.1 and 1156.2 plus pages 1.1, 13, 14.1, 47.1, 58.1, 68.1, 82.1, 99, 100, 102.1, 466, and 611.1 were intentionally left blank.

TRADEMARKS:

Perkin-Elmer is a Registered Trademark of Research and Manufacturing Company, Inc. Mettler is a Registered Trademark of Mettler Electronics

NARRATIVE

THIS PAGE WAS INTENTIONALLY LEFT BLANK

FINAL REPORT FOR TANK 241-BX-109, PUSH MODE, CORES 84 AND 85

Summary

This is the final report for push mode core samples taken from risers 2 and 6 of tank 241-BX-109 (BX-109) from April 4, 1995 through May 17, 1995. The samples were received, extruded, and analyzed at the 222-S Laboratories and underwent analyses consistent with the safety screening data quality objective (DQO) (Dukelow, et al. 1995) and the historical DQO (Simpson and McCain 1995) as identified in the Sampling and Analysis Plan for this tank (Schreiber 1995). This report summarizes the results of those analyses and includes data from both subsegment and core composite samples. In addition to the laboratory analytical requirements of Schreiber (1995), a test for flammable gas concentration in the tank headspace was requested; however, the data from these measurements has not been obtained by the field operations crews as of this date and will be included in the Tank Characterization Report for tank BX-109 when it is written.

The safety screening results obtained from this sampling and analysis activity, which include differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), and total alpha activity analysis results, suggest that tank BX-109 may be classified as "safe". No exotherms were observed with these core samples, and the one-sided 95 percent confidence interval upper limits for the total alpha activity results were well below the total alpha activity notification limit. As well, the results obtained were consistent with the tank's transfer history, which states that tank BX-109 contains predominantly uranium recovery waste. With respect to the historical DQO, this means that the results passed the tank's gateway analyses. Per Simpson and McCain (1995), a representative subsegment was subsequently chosen and secondary analyses were performed on this subsegment to complete the requirements of the historical DQO. These additional analyses were performed on the lower half of segment 3 from core 84 and included bulk density, total beta analysis, strontium analysis, total organic carbon analysis, and inductively coupled plasma atomic emission spectroscopy on a water digested sample.

The data summary tables included in this report compile the safety screening and historical analytical results associated with each subsegment from these core samples, as well as the data pertaining to the core composites. In addition, the results of the statistical analysis (calculation of the 95% confidence intervals for total alpha activity analyses) are given in Table 3 on a sample by sample basis. As the final report for tank BX-109, this document also contains the following information: chain of custody forms, photographs of the extruded samples, sample preparation data, and the raw data for all analyses. Although not included in this report, the hot cell logbook notes may be found in Fuller (1995).

Sample Receipt and Extrusion

Table 1 summarizes the sample extrusion results for the tank BX-109 core segments. For each segment, the sample number, solid and liquid recoveries and a description of the material as it was extruded are included. Table 2 provides each of the tank BX-109 subsegment and core composite associated analytical sample numbers as reported in the data summary tables.

Table 1: Tank BX-109 Core Segment Extrusion Summary

Core	Riser	Seg	Sample #	Solid (g)	Liquid (g)	Sample Description
84	6	1	95-073	177.04	0	Dark brown solids, soft, and maintained shape. Cream colored material discovered on inside of sample upon subsampling.
		2	95-074	402.23	0	Lower half solids were dark to medium brown, wet and maintained shape (tended to run a bit). Upper half solids were light to medium brown, wet, and maintained shape (tended to run a bit).
		3	95-075	414.68	0	Lower half solids were light brown, tan in color. Upper half solids were medium brown with some tan material on surface. All solids were soft, wet, and creamy.
		4	95-076	402.49	0	Lower half solids were medium brown. Upper half solids were tan. All solids were soft, wet, and creamy.
85	2	1	95-077	148.66	36.16	Solids were medium to dark brown, soft, wet, and tended to run (did not maintain shape). Drainable liquid was medium brown.
		2	95-078	394.48	0	First 4 to 5 inches of sample were light brown, followed by 6-7 inches of medium brown material. Remaining solids were medium to dark brown. All solids were soft, wet, and maintained shape.
		3	95-079	425.88	0	Solids were light brown, with a slight color change in the bottom 4 inches of sample. Solid texture was soft, wet, and maintained shape.
		4	95-080	317.54	74.77	Solids were soft, wet, and maintained shape. Creamy consistency and texture uniform throughout sample.
NA	2	NA	Field Blank	0	275.69	Clear, colorless liquid. No solids obtained.

NA - not applicable

Table 2: Tank BX-109 Labcore Sample Numbers

Subsegment	Matrix	Sample Numbers			
		DIRECT ANALYSES	FUSION PREPARATION (SOLID); ACID DILUTION (LIQUID)	WATER PREPARATION (IC)	WATER PREPARATION (ICP)
C84 S1 WS	SLUDGE	S95T000759	S95T000760	S95T000976	N/A
C84 S2 LH	SLUDGE	S95T000762	S95T000763	S95T000977	N/A
C84 S2 UH	SLUDGE	S95T000765	S95T000766	S95T000980	N/A
C84 S3 LH	SLUDGE	S95T000768	S95T000769	S95T000981	S96T001568
C84 S3 UH	SLUDGE	S95T000771	S95T000772	S95T000982	N/A
C84 S4 LH	SLUDGE	S95T000774	S95T000775	S95T000983	N/A
C84 S4 UH	SLUDGE	S95T000777	S95T000778	S95T000984	N/A
C84 COMP	SLUDGE	S95T001325	S95T001329	S95T001326	S95T001445
C85 S1 WS	SLUDGE	S95T000780	S95T000781	S95T000994	N/A
C85 S1 DL	LIQUID	S95T000783	S95T000784	S95T000993	N/A
C85 S2 LH	SLUDGE	S95T000786	S95T000787	S95T000995	N/A
C85 S2 UH	SLUDGE	S95T000789	S95T000790	S95T000996	N/A
C85 S3 LH	SLUDGE	S95T000836	S95T000837	S95T000997	N/A
C85 S3 UH	SLUDGE	S95T000839	S95T000840	S95T000998	N/A
C85 S4 LH	SLUDGE	S95T000847	S95T000848	S95T000999	N/A
C85 S4 UH	SLUDGE	S95T000850	S95T000851	S95T001000	N/A
C85 S4 DL	LIQUID	S95T000853	S95T000854	S95T001001	N/A
C85 COMP	SLUDGE	S95T001468 S95T002283	S95T001471	S95T001469	S95T001470
C85 FB	LIQUID	S95T000856	S95T000857	N/A	N/A
LiBr	LIQUID	S95T000816	N/A	N/A	N/A

C = Core Number
S = Segment Number
UH = Upper Half
LH = Lower Half
COMP = Core Composite

WS = Whole Segment
FB = Field Blank
LiBr = Lithium Bromide Blank
DL = Drainable Liquid

Analytical Results

DIFFERENTIAL SCANNING CALORIMETRY

Differential scanning calorimetry on the 16 subsegments, two core composites, and one field blank from tank BX-109 were performed under a nitrogen purge using procedures LA-514-113, Revs. B-1 and C-0 (Mettler[1] instrument) and LA-514-114, Rev. B-0 (Perkin-Elmer[2] instrument). Since both instruments were used during the DSC analysis, it must be noted that the two instruments produce raw data scans which present exotherms differently. On the Mettler instrument, an exotherm is represented by a peak, while the Perkin-Elmer instrument shows an exotherm as a valley.

None of the samples analyzed exhibited any exothermic energy (all results were zero J/g). Since no exotherms were detected for any of the primary and duplicate sample results, all relative percent difference (RPD) results, which measure the precision of the analysis, were zero. As well, no upper limits of the 95% confidence intervals were calculated since no exotherms were detected.

In the SAP (Schreiber 1995), the acceptable accuracy range is between 90 and 110 percent. For the DSC analysis, the accuracy is determined by the Laboratory Measurement Control System (LMCS) control standard recovery. The LMCS control standards for tank BX-109 exhibited recoveries which were all within the program's specified accuracy range. The standard recoveries for the solid samples ranged from 92.44 percent to 104.7 percent, while the standard recovery for the drainable liquid samples was 104.4 percent.

THERMOGRAVIMETRIC ANALYSIS (Percent Moisture)

Analyses for percent water by TGA were performed on the 18 samples from tank BX-109 and the field blank using procedures LA-560-112, Revs. A-2 and B-0 (Mettler instrument) and LA-514-114, Rev. B-0 (Perkin-Elmer instrument). All samples were run under a nitrogen atmosphere. At the start of this analysis project, an earlier revision of Dukelow, et al. (1995) was in effect which specified a moisture content notification limit of 17 weight percent water. This limit had been included in the DQO since moisture would be a mitigating factor in a tank energetics event. During the course of this project, though, the DQO was revised to eliminate this notification requirement. For the purposes of consistency, this limit was maintained for the remainder of the tank BX-109 project, although no calculations of the 95% confidence interval have been performed.

Out of the 18 samples analyzed, none yielded percent water primary and/or duplicate sample results below the notification limit of 17 weight percent water. Average percent water results for the solid subsamples ranged from 47.19 to 54.05 weight percent water, and the core composite results were 50.94 and 50.79 weight percent water for cores 84 and 85, respectively. The two liquid samples from core 85 produced TGA results of 57.63 and 87.63 weight percent water.

---

1 Mettler is a registered trademark of Mettler Electronics, Anaheim, California.

2 Perkin-Elmer is a registered trademark of Perkins Research and Manufacturing Company, Inc., Canoga Park, California.

As with the DSC analysis, the maximum acceptable precision for the TGA analysis per the SAP is an RPD of 10% between the primary and duplicate sample results. The RPD values for these tank BX-109 samples ranged from 0.06 to 24 percent, with three of the core 85 samples having values in excess of the ±10 percent precision criterion. No reruns were performed on these samples due to high RPD values since the TGA percent moisture sample results were above the notification limit and no exotherms were detected in the samples. However, a rerun on sample S95T000783 was performed because the primary sample TGA run had been initiated too early (the balance was not allowed to settle on an accurate sample weight). The triplicate result of 57.53 agrees quite well with the duplicate result of 57.73, and the primary sample result has been rejected since it is not a valid data point. Similarly to the DSC analysis, the TGA analysis accuracy is determined by the LMCS control standard recovery. Of the tank BX-109 subsegments, standard recovery values ranged from 92.7 to 101.2 percent, all of which are within the specified accuracy requirements in the SAP.

BULK DENSITY/SPECIFIC GRAVITY

Per the revised safety screening DQO (Dukelow, et al. 1995), measurements of bulk density and specific gravity are to be performed on each subsample, primarily in order to convert the total alpha activity notification limit of 1 gram per liter (g/L) of plutonium-239 into units of microcuries per gram (μCi/g) which is used by the laboratory. As well, the historical DQO requires bulk density analysis on the core composite samples and one additional subsegment provided the tank passes the gateway analyses. For the tank BX-109 project, which was initiated under a previous revision of the safety screening DQO that did not require this analysis, bulk density analyses were only performed on the composite samples and this additional subsegment (core 84, segment 3, lower half). Generally, a density of 1.5 g/mL is used as a conservative estimate of density for unknown materials. However, it can be shown that the use of the composite sample bulk density in the conversion of the total alpha activity notification limit does not compromise the results, and that it is not possible to produce a bulk density result from tank BX-109 which would result in a criticality concern. Seven solid subsamples from each core were used to make the composites. Since the core composite bulk density may be considered an average bulk density of the seven subsamples used to make that composite, the maximum density value possible from any individual subsamples would be seven times the core composite density (this assumes that six of the seven subsamples had densities of zero g/mL). For core 84, this upper bounding density value is 10.2 g/mL, while it is 10.5 g/mL for core 85. Using this maximum density to convert the total alpha activity notification limit from g/L to μCi/g (which would produce the lowest possible notification limit), the notification limit for core 84 becomes 6.02 μCi/g and for core 85 it is 5.86 μCi/g. However, the maximum total alpha activity results produced for cores 84 and 85, as summarized below, are <0.360 μCi/g and 0.138 μCi/g, respectively, which are more than a factor of ten lower than these lowest possible notification limits. Therefore, it can be seen that it is not possible to produce an individual subsample bulk density such that the tank BX-109 total alpha activity results produce a criticality concern.

Procedure LO-160-103, Rev. A-7 was used to perform the bulk density measurements on the solid core composite samples, and procedure LA-510-112, Rev. C-3 was used during the specific gravity analyses on the drainable liquid samples. For core 84, a composite bulk density result of 1.46 g/mL was found, while a value of 1.50 g/mL was obtained for core 85. A bulk density measurement was also performed as a secondary

analysis on the lower half segment of core 84, segment 3, which produced a result of 1.52 g/mL. The average specific gravity results of the two drainable liquid samples from core 85 were 1.035 and 1.268.

In order to conserve sample material, no duplicate analyses were performed as part of the bulk density measurements, so no estimate of precision can be made. Further, no standard is run with this analysis, so there is no accuracy evaluation possible. For the two specific gravity measurements, though, both duplicate results and standard recoveries are provided, making it possible to evaluate the quality control of these analyses. The LMCS control standard recovery for these two samples was 95.06%, which is within the acceptable accuracy range of 90 to 110 percent. With respect to precision, the RPD values for these samples were 0.55% and 0.68%, well within the acceptable precision requirement of 10% RPD.

TOTAL ALPHA ACTIVITY

Per the safety screening DQO and the SAP, total alpha analyses were performed on the sludge and liquid samples using procedure LA-508-101, Rev. D-2. Fusion digestions on the sludge subsegments were prepared using procedure LA-549-141, Rev. C-2 and D-0, while the liquid samples were run without any preparation (i.e., direct analysis). The fusion preparation on the solid samples is identified by an "F" in the aliquot or "A" column of the data summary tables. In order to determine the notification limit for the total alpha analysis, the limit of 1 g/L as specified in the safety screening DQO was converted to units of μCi/g using the core composite bulk densities of the tank BY-110 waste material (see prior discussion). The highest composite bulk density result obtained (1.50 g/mL) was used in this calculation, which yielded a notification limit of 41 μCi/g. By using the highest density result, the lowest notification limit in μCi/g was obtained, thereby providing the most conservative estimate with respect to criticality evaluation. As discussed above, none of the subsegments produced total alpha activity results in excess of this limit. Of the 36 primary and duplicate sample results, 27 results were below the instrument detection limit and only three subsamples had both the primary and duplicate result above the detection limit.

The range of RPD values for the three core 85 subsegments with primary and duplicate results greater than the detection limit ranged from 6.02% to 128%, with two of the samples above the acceptable precision requirement of 10% RPD. However, since the largest of the average results for these three samples was nearly 500 times lower than the notification limit, and was very near (less than ten times) the detection limit, no further repreparations or reruns were requested. The spike recoveries ranged from 76.90 to 104.8% for the 17 samples with which spikes were performed. Eight of the samples (seven solid and 1 liquid sample) had low spike recoveries. Generally, low spike recoveries occur because large sample sizes are used for the analyses, resulting in high amounts of solid material on the sample mount. Although the some of the spike recoveries were poor, none of the recoveries were outside of the laboratory control limits established for the total alpha activity analysis. The standard recoveries, which measure the accuracy of the total alpha analyses, ranged from 84.42 to 107.9%, with 5 of the recoveries (3 solid and 2 liquid) below the lower criterion of 90%.

Statistical analyses for the 95% confidence interval were performed on the total alpha data from the three tank BX-109 samples above the detection limit per Dukelow et al. (1995). The upper limit (UL) of this interval was then compared to the

notification limit of 41 μCi/g. For each subsegment, the sample mean, the standard deviation (SD) of the mean, and the UL to the 95% confidence interval are presented in Table 3. If the UL of any subsegment is less than 41 μCi/g of total alpha activity, the hypothesis that the subsegment's activity is greater than or equal to the notification limit is rejected. None of the three subsamples analyzed for total alpha activity produced UL results which exceeded the notification criteria, indicating that tank BX-109 may be considered "safe" from a criticality perspective.

Table 3: 95% Confidence Interval Calculations for Tank BX-109 Total Alpha Activity Results

Sample#	Unit	Result	Duplicate	Average	SD(mean)	UL(95%)
S95T000787	uCi/g	1.38e-01	3.04e-02	8.42e-02	5.38e-02	4.24e-01
S95T001471	uCi/g	2.58e-02	2.74e-02	2.66e-02	8.00e-04	3.17e-02
S95T000783	uCi/mL	8.09e-04	4.27e-04	6.18e-04	1.91e-04	1.82e-03

TOTAL ORGANIC CARBON (TOC)

In accordance with Simpson and McCain (1995), total organic carbon (TOC) analysis was performed on the core 84 and 85 composite samples and the lower half of core 84, segment 3 using procedure LA-342-100, Revs. A-0 through C-0 (direct persulfate method). Average results of 379.5 and 440.0 μgC/g were obtained for the two core composites, and an average result of 416.5 μgC/g was found for the lower half segment of core 84, segment 3. All of these results are nearly a factor of one hundred less than the TOC notification limit of 30,000 μgC/g (3 weight percent carbon) in the *Unclassified Operating Specifications for Single Shell Waste Storage Tanks* (WHC 1996). In addition to these three analyses, a fourth TOC analysis was performed on segment 1 of core 84 because a potentially organic separable phase was noticed in the sample once it had been stored, awaiting analysis (no separable phases had been observed during extrusion). The results of this analysis, which yielded an average of 995.5 μgC/g, was greater than the values obtained for the core composite samples and the core 84, segment 3 subsegment, but was still 30 times lower than the notification limit. These TOC results demonstrate agreement with the observed DSC behavior, supporting the conclusion that very little to no fuel is present in the tank BX-109 waste. The RPD values for these four TOC analyses ranged from 5.92% to 25%, and the standard recoveries were 96.33%, 93%, 94.67%, and 93% for samples S95T000759, S95T001325, S95T002283, and S95T000768 respectively. The spike recoveries for samples S95T000759, S95T002283, and S95T000768 were 95.40, 94.30%, and 91% respectively, while sample S95T001325 did not have a spike performed during the analysis.

INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROSCOPY (ICP) ANALYSIS

In accordance with Simpson and McCain (1995), ICP analysis for a suite of 37 metals was performed on each of the tank BX-109 samples using procedure LA-505-161, Revs. A-1 and B-0. Each solid subsegment and core composite was prepared using a potassium hydroxide fusion digestion in a nickel crucible (procedure LA-549-141,

Revs. C-2 and D-0). Due to the use of potassium hydroxide in the analysis process, potassium has not been reported as part of the ICP fusion results. As well, ICP analysis was performed on a water-leached aliquot of each of the core composite samples and the core 84 segment 3 lower half segment, using water leach procedure LA-504-101, Revs. C-0 and D-0. The drainable liquid samples from Core 85 were diluted with acid (procedure LA-505-158, Rev. A-4) prior to ICP analysis. No specific precision or accuracy requirements are defined in Simpson and McCain (1995); therefore, no reruns of samples were performed.

Most samples exhibited some analyte RPDs greater than ±10%. Analytes that had more than three RPD recovery failures or poor spike recoveries for core 84 were bismuth, lithium, nickel, selenium, silver, sodium, and zinc. Analytes that had more than three RPD failures or poor spike recoveries for core 85 were bismuth, lithium, iron, lead, magnesium, nickel, phosphorus, selenium, silver, sodium, silicon, sulfur, and uranium. In general, these analytes were very close to their detection limits, making their measurements unreproducible (which causes the RPD to be exceeded); or were present in substantial amounts, making the spike values relatively small compared to the analyte concentration in the waste (which results in large errors in the differences of the two numbers). These criteria failures should have no impact on the use of the data. It should also be noted that the nickel results may not reflect the tank waste because a nickel crucible was used for the analysis. At best, the nickel results provide an upper limit for its concentration in the waste.

In addition to being part of the requirements of Simpson and McCain (1995), lithium analysis is necessary to determine the extent of any hydrostatic head fluid (HHF) contamination as a result of the push mode core sampling process. Four of the 18 tank BX-109 samples have lithium results that either exceed the notification limit of 100 $\mu g/g$ or have results that are reported as less than detection limits which are so high that the results could exceed the notification limit. Table 4 lists these samples and their corresponding lithium results. Due to the potential incursion of HHF into these samples, bromide was requested as a secondary analysis.

Table 4: Tank BX-109 Samples Which May Have HHF Contamination

Sample Number	Core/Segment	Average Li Concentration
S95T000851	C85 S4 UH	166.8 $\mu g/g$
S95T000854	C85 S4 DL	1,550 $\mu g/mL$
S95T001329	C84 composite	< 228 $\mu g/g$
S95T001471	C85 composite	< 390 $\mu g/g$

ION CHROMATOGRAPHY (IC)

Ion chromatography (IC) analyses for chloride, fluoride, nitrate, nitrite, phosphate, and sulfate anions was performed on each solid subsegment and core composite as required by Simpson and McCain (1995) using procedure LA-533-105, Revs. C-2 and D-0 after the samples had been prepared using a water leach. Bromide and oxalate analyses were not required as part of the IC anion suite, although bromide analysis was performed on some samples which exhibited possible hydrostatic head

fluid (HHF) contamination from the push mode core sampling process. Per Schreiber (1995), only one spike per batch was performed.

As expected, there are very high concentrations of nitrate, nitrite, phosphate and sulfate (generally greater than 10,000 μg/g) in tank BX-109. Nitrate appears to make up approximately 20 wt% of the waste, and the nitrate/nitrite ratio is about 10:1. There appears to be no soluble fluoride in this waste. As stated earlier, four of the tank BX-109 subsamples (the upper half segment and drainable liquid samples from segment four of core 85, and both core composites) produced lithium results which may indicate an incursion of HHF into the samples. The secondary bromide analysis results for these samples is given in Table 5. Both core composites produced results which were below the detection limit; however, due to the dilution factors used during the analysis these detection limits were higher than the bromide notification limit of 1,200 μg/g. To identify whether or not HHF intrusion occurred with these samples, a bromide concentration for the core composites was extrapolated from the IC calibration curve and is provided in Table 5.

Table 5: Tank BX-109 Samples Which May Have HHF Contamination

Sample Number	Core/Segment	Average Br Concentration	Extrapolated Br Concentration
S95T001000	C85 S4 UH	2,420 μg/g	NA
S95T001001	C85 S4 DL	22,000 μg/mL	NA
S95T001326	C84 composite	< 6600 μg/g	0 μg/g
S95T001469	C85 composite	< 2710 μg/g	1,035 μg/g

As can be seen by the results in Table 5, segment 4 of core 85 has been contaminated by the HHF used during the push mode core sampling process. In fact, the drainable liquid sample from core 85, segment 4 is mostly HHF (the concentration of Br in the HHF blank was 23,600 μg/mL), indicating that the results from this subsegment are highly suspicious and should not be used in calculations of tank inventory. Since this incursion added water to these samples, a correction to their TGA results has been made and is reported in Table 6. This correction can be made using either the lithium or the bromide results; the corrections shown in Table 6 have been made using both the lithium and bromide concentrations, although it should be noted that lithium may precipitate out of solution, giving a biased low result.

Table 6: Correction to TGA Results Due to HHF Contamination

Sample Number	Core/Segment	Original TGA Result	Corrected TGA Result Based on Li results	Corrected TGA Result Based on Br results
S95T000850	C85 S4 UH	54.05%	49.8%	49.0%
S95T000853	C85 S4 DL	87.63%	48.6%	0%

RADIOCHEMISTRY

In accordance with Simpson and McCain (1995), gamma energy analysis (GEA) for a suite of five analytes and uranium analysis by laser fluorimetry (procedure LA-925-009, Rev. A-1) were performed on each solid and liquid subsegment and core composite using procedure LA-548-121, Rev. D-1. A potassium hydroxide fusion digestion procedure was used to prepare the solid samples, while an acid dilution was used to prepare the liquid samples. Uranium results were obtained by both the ICP and laser fluorimetry methods, and the results for these two different methods compared closely. As well, total beta analyses (procedure LA-508-101, Rev. D-2) and ^{90}Sr analyses (procedure LA-220-101, Rev. D-0) were done on the solid core composite samples and the lower half segment of core 84, segment 3.

The only requested radiochemical analyses which use spikes as standard quality control protocol are the total beta and uranium assays, so no spikes in addition to these analyses were performed. No specific precision or accuracy requirements are defined in Simpson and McCain (1995), therefore no reruns were performed. None of the GEA results from either core exhibited RPDs greater than the ±10% criteria. However, eleven of the uranium spike recoveries were outside the 90-110% range, with the values ranging from 70.70 to 167.0%. As well, one uranium result (sample S95T000781 from core 85, segment 1) had an RPD result above the ±10% limit, and the total beta standard recovery results from samples S95T001329 (core 84 composite) and S95T000769 (core 84, segment 3, lower half segment) exceeded the standard criterion. In general, the results from BX-109 were much as expected based on the historical tank information, with very few detectable radiochemical species present. The fission products ^{90}Sr and ^{137}Cs are the principal sources of activity in the waste (^{90}Sr is the main contributor). Uranium is present in substantial quantities, but does not contribute significantly to the overall activity of the waste.

Project Coordinator: Ruth D. Schreiber

REFERENCES

Dukelow, G. T., J. W. Hunt, H. Babad, J. E. Meacham, 1995, *Tank Safety Screening Data Quality Objective*, WHC-SD-WM-SP-004, Revision 2, Westinghouse Hanford Company, Richland, Washington.

Fuller, R. K., 1995, *Tank 241-BX-109*, WHC-N-748, Westinghouse Hanford Company, Richland, Washington.

Schreiber, R. D., 1995, *Tank 241-BX-109 Push Mode Core Sampling and Analysis Plan*, WHC-SD-WM-TSAP-056, Revision 1, Westinghouse Hanford Company, Richland, Washington.

Simpson, B. C., and D. J. McCain, 1995, *Historical Model Evaluation Data Requirements*, WHC-SD-WM-DQO-018, Revision 0, Westinghouse Hanford Company, Richland, Washington.

Tank Farm Operations, 1995, Work Package ES-95-000161, Westinghouse Hanford Company, Richland, Washington.

Westinghouse Hanford Company, 1996, *Unclassified Operating Specifications for Single Shell Waste Storage Tanks*, OSD-T-151-00013, Revision D-10, Westinghouse Hanford Company, Richland, Washington.

THIS PAGE WAS INTENTIONALLY LEFT BLANK

SAMPLE DATA SUMMARY

THIS PAGE WAS INTENTIONALLY LEFT BLANK

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 84
SEGMENT #: 1

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000759			TOC by Persulfate/Coulometry	ug/g	96.33	5.100	1.07e+03	9.210e2	9.955e2	15.0	95.40	40.00	n/a
S95T000759			% Water by TGA using Mettler	%	95.12	n/a	48.07	4.992e1	4.900e1	3.67	n/a	n/a	n/a
S95T000759			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000759			DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000760		F	Uranium by Phosphorescence	ug/g	108.8	39.20	1.40e+04	1.320e4	1.360e4	5.88	104.0	1.800e-1	n/a
S95T000760		F	Alpha of Digested Solid	uCi/g	93.92	<5.970e-2	<5.46e-02	<5.47e-2	n/a	n/a	93.20	7.900e-2	375.3
S95T000760		F	Americium-241 by GEA	uCi/g	n/a	<7.590e-2	<1.56e-1	<1.53e-1	n/a	n/a	n/a	7.600e-2	n/a
S95T000760		F	Cobalt-60 by GEA	uCi/g	100.0	<1.070e-2	<5.63e-3	5.560e-3	n/a	n/a	n/a	1.100e-2	n/a
S95T000760		F	Cesium-137 by GEA	uCi/g	105.1	7.20e-02	9.450	9.190e0	9.320e0	2.79	n/a	7.200e-2	0.7
S95T000760		F	Europium-154 by GEA	uCi/g	n/a	<3.350e-2	<2.35e-2	5.090e-2	n/a	n/a	n/a	3.400e-2	n/a
S95T000760		F	Europium-155 by GEA	uCi/g	n/a	<2.740e-2	<5.67e-2	<5.67e-2	n/a	n/a	n/a	2.700e-2	n/a
S95T000760		F	Silver -ICP-Fusion	ug/g	101.7	3.00e-03	< 48.70	<48.7700	n/a	n/a	82.45	48.70	n/a
S95T000760		F	Aluminium -ICP-Fusion	ug/g	101.2	1.80e-02	4.31e+03	4.380e3	4.350e3	1.49	91.58	243.0	n/a
S95T000760		F	Arsenic -ICP-Fusion	ug/g	104.9	-8.10e-2	<2.43e+02	<243.850	n/a	n/a	104.6	243.0	n/a
S95T000760		F	Boron -ICP-Fusion	ug/g	101.4	3.00e-02	<2.43e+02	<243.850	n/a	n/a	94.71	243.0	n/a
S95T000760		F	Barium -ICP-Fusion	ug/g	100.3	2.20e-02	<2.43e+02	<243.850	n/a	n/a	89.88	243.0	n/a
S95T000760		F	Beryllium -ICP-Fusion	ug/g	104.8	4.00e-04	< 24.34	<24.3850	n/a	n/a	97.32	24.30	n/a
S95T000760		F	Bismuth -ICP-Fusion	ug/g	102.4	-8.740e0	<4.87e+02	<487.700	n/a	n/a	10.60	487.0	n/a
S95T000760		F	Calcium -ICP-Fusion	ug/g	104.7	6.95e-01	5.74e+03	5.630e3	5.680e3	1.97	108.6	487.0	n/a
S95T000760		F	Cadmium -ICP-Fusion	ug/g	104.1	8.00e-03	< 48.70	<48.7700	n/a	n/a	101.2	48.70	n/a
S95T000760		F	Cerium -ICP-Fusion	ug/g	101.9	-2.20e-2	<4.87e+02	<487.700	n/a	n/a	92.72	487.0	n/a
S95T000760		F	Cobalt -ICP-Fusion	ug/g	103.8	2.00e-04	< 97.40	<97.5400	n/a	n/a	100.3	97.40	n/a
S95T000760		F	Chromium -ICP-Fusion	ug/g	104.3	-4.00e-3	1.06e+02	9.441e1	1.002e2	11.6	101.6	48.70	n/a
S95T000760		F	Copper -ICP-Fusion	ug/g	101.1	9.00e-03	< 48.70	<48.7700	n/a	n/a	91.53	48.70	n/a
S95T000760		F	Iron -ICP-Fusion	ug/g	104.0	8.30e-02	2.51e+04	3.390e4	2.950e4	29.8	97.66	243.0	n/a
S95T000760		F	Lanthanum -ICP-Fusion	ug/g	101.4	-1.40e-2	<2.43e+02	<243.850	n/a	n/a	91.79	243.0	n/a
S95T000760		F	Lithium -ICP-Fusion	ug/g	100.0	1.30e-02	< 48.70	<48.7700	n/a	n/a	85.58	48.70	n/a
S95T000760		F	Magnesium -ICP-Fusion	ug/g	100.8	1.62e-01	1.13e+03	1.080e3	1.100e3	4.37	89.09	487.0	n/a
S95T000760		F	Manganese -ICP-Fusion	ug/g	102.2	4.10e-02	2.15e+02	2.599e2	2.375e2	18.9	96.30	48.70	n/a
S95T000760		F	Molybdenum -ICP-Fusion	ug/g	103.9	-1.10e-2	<2.43e+02	<243.850	n/a	n/a	101.8	243.0	n/a
S95T000760		F	Sodium -ICP-Fusion	ug/g	99.58	4.158	1.04e+05	9.800e4	1.010e5	6.18	43.14	487.0	n/a
S95T000760		F	Neodymium -ICP-Fusion	ug/g	104.2	6.00e-03	<4.87e+02	<487.700	n/a	n/a	93.27	487.0	n/a
S95T000760		F	Nickel -ICP-Fusion	ug/g	103.5	13.32	6.01e+03	6.260e3	6.140e3	4.07	101.9	97.40	n/a
S95T000760		F	Phosphorus -ICP-Fusion	ug/g	104.2	1.38e-01	2.34e+04	2.190e4	2.260e4	6.63	99.79	974.0	n/a
S95T000760		F	Lead -ICP-Fusion	ug/g	104.2	3.61e-01	7.70e+02	8.171e2	7.937e2	5.89	0.00e+00	487.0	n/a
S95T000760		F	Sulfur -ICP-Fusion	ug/g	103.0	2.02e-01	6.18e+03	6.000e3	6.090e3	2.93	99.80	243.0	n/a
S95T000760		F	Antimony -ICP-Fusion	ug/g	97.69	-5.70e-2	<9.74e+02	<975.400	n/a	n/a	94.02	974.0	n/a
S95T000760		F	Selenium -ICP-Fusion	ug/g	104.4	-2.020e0	<4.87e+02	<487.700	n/a	n/a	78.15	487.0	n/a
S95T000760		F	Silicon -ICP-Fusion	ug/g	94.02	4.33e-01	1.05e+03	1.070e3	1.060e3	1.42	94.79	243.0	n/a
S95T000760		F	Samarium -ICP-Fusion	ug/g	101.5	1.54e-01	<4.87e+02	<487.700	n/a	n/a	93.37	487.0	n/a
S95T000760		F	Strontium -ICP-Fusion	ug/g	99.56	4.00e-03	5.71e+02	5.689e2	5.698e2	0.32	89.81	48.70	n/a
S95T000760		F	Titanium-ICP-Fusion	ug/g	99.12	2.00e-02	1.36e+02	1.309e2	1.334e2	3.84	93.08	48.70	n/a
S95T000760		F	Thallium -ICP-Fusion	ug/g	101.2	2.11e-01	<9.74e+02	<975.400	n/a	n/a	95.00	974.0	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000760		F	Uranium -ICP-Fusion	ug/g	100.1	-2.510e0	1.19e+04	1.120e4	1.160e4	5.94	87.84	1.950e3	n/a
S95T000760		F	Vanadium -ICP-Fusion	ug/g	99.01	4.90e-02	<2.43e+02	<243.850	n/a	n/a	96.00	243.0	n/a
S95T000760		F	Zinc -ICP-Fusion	ug/g	104.4	4.40e-02	1.08e+02	1.486e2	1.282e2	31.8	102.9	48.70	n/a
S95T000760		F	Zirconium -ICP-Fusion	ug/g	101.1	9.20e-02	54.96	<48.7700	n/a	n/a	94.67	48.70	n/a
S95T000976		W	Chloride-IC-Dionex 4000i/4500	ug/g	102.7	<8.300e-2	1.30e+03	8.040e2	1.050e3	47.1	95.30	336.0	n/a
S95T000976		W	Fluoride-IC-Dionex 4000i/4500	ug/g	94.58	<6.200e-2	<2.51e+02	<2.43e2	n/a	n/a	94.10	251.0	n/a
S95T000976		W	Nitrite-IC - Dionex 4000i/4500	ug/g	102.6	<5.320e-1	1.90e+04	1.140e4	1.520e4	50.0	95.80	2.150e3	n/a
S95T000976		W	Nitrate by IC-Dionex4000i/4500	ug/g	101.6	<7.030e-1	1.93e+05	1.140e5	1.540e5	51.5	55.20	2.850e3	n/a
S95T000976		W	Phosphate-IC-Dionex 4000i/4500	ug/g	93.70	<5.720e-1	3.73e+04	2.290e4	3.010e4	47.8	91.90	2.310e3	n/a
S95T000976		W	Sulfate by IC-Dionex4000i/4500	ug/g	98.69	<6.970e-1	1.67e+04	1.010e4	1.340e4	49.3	94.50	2.820e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 84
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000765			% Water by TGA on Perkin Elmer	%	97.16	n/a	50.78	5.003e1	5.041e1	1.49	n/a	n/a	n/a
S95T000765			DSC Exotherm on Perkin Elmer	Joules/g	95.68	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000765			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000766		F	Uranium by Phosphorescence	ug/g	109.8	53.80	8.47e+03	8.960e3	8.720e3	5.62	86.40	2.000e-1	n/a
S95T000766		F	Alpha of Digested Solid	uCi/g	93.92	<3.850e-2	<3.85e-02	<3.57e-2	n/a	n/a	90.90	8.800e-2	500.0
S95T000766		F	Americium-241 by GEA	uCi/g	n/a	<1.020e-1	<3.71e-01	<3.55e-1	n/a	n/a	n/a	1.020e-1	n/a
S95T000766		F	Cobalt-60 by GEA	uCi/g	99.53	<1.730e-2	<2.09e-02	<1.97e-2	n/a	n/a	n/a	1.700e-2	n/a
S95T000766		F	Cesium-137 by GEA	uCi/g	103.4	<3.740e-2	10.30	1.050e1	1.040e1	1.92	n/a	3.700e-2	1.76
S95T000766		F	Europium-154 by GEA	uCi/g	n/a	<3.160e-2	<6.71e-02	<6.66e-2	n/a	n/a	n/a	3.200e-2	n/a
S95T000766		F	Europium-155 by GEA	uCi/g	n/a	<4.230e-2	<1.64e-01	<1.60e-1	n/a	n/a	n/a	4.200e-2	n/a
S95T000766		F	Silver -ICP-Fusion	ug/g	98.57	-4.00e-3	< 53.94	<50.0600	n/a	n/a	76.97	53.90	n/a
S95T000766		F	Aluminium -ICP-Fusion	ug/g	100.7	3.09e-01	2.75e+03	2.980e3	2.860e3	8.22	95.23	270.0	n/a
S95T000766		F	Arsenic -ICP-Fusion	ug/g	102.9	-3.80e-2	<2.70e+02	<250.300	n/a	n/a	105.1	270.0	n/a
S95T000766		F	Boron -ICP-Fusion	ug/g	100.3	-6.00e-3	<2.70e+02	<250.300	n/a	n/a	95.90	270.0	n/a
S95T000766		F	Barium -ICP-Fusion	ug/g	99.93	4.00e-03	<2.70e+02	<250.300	n/a	n/a	91.47	270.0	n/a
S95T000766		F	Beryllium -ICP-Fusion	ug/g	104.6	2.00e-03	< 27.00	<25.0300	n/a	n/a	99.21	27.00	n/a
S95T000766		F	Bismuth -ICP-Fusion	ug/g	101.7	-1.020e1	<5.39e+02	<500.600	n/a	n/a	10.00	539.0	n/a
S95T000766		F	Calcium -ICP-Fusion	ug/g	100.4	5.39e-01	4.67e+03	4.870e3	4.770e3	4.11	107.8	539.0	n/a
S95T000766		F	Cadmium -ICP-Fusion	ug/g	101.6	-2.00e-3	< 53.94	<50.0600	n/a	n/a	102.0	53.90	n/a
S95T000766		F	Cerium -ICP-Fusion	ug/g	101.5	-7.40e-2	<5.39e+02	<500.600	n/a	n/a	93.94	539.0	n/a
S95T000766		F	Cobalt -ICP-Fusion	ug/g	101.4	-4.00e-3	<1.08e+02	<100.120	n/a	n/a	100.2	108.0	n/a
S95T000766		F	Chromium -ICP-Fusion	ug/g	101.8	5.00e-03	1.21e+02	1.265e2	1.237e2	4.47	102.2	53.90	n/a
S95T000766		F	Copper -ICP-Fusion	ug/g	101.4	2.20e-02	< 53.94	<50.0600	n/a	n/a	94.52	53.90	n/a
S95T000766		F	Iron -ICP-Fusion	ug/g	102.0	4.80e-02	1.85e+04	1.950e4	1.900e4	5.53	108.5	270.0	n/a
S95T000766		F	Lanthanum -ICP-Fusion	ug/g	101.8	-9.00e-3	<2.70e+02	<250.300	n/a	n/a	94.00	270.0	n/a
S95T000766		F	Lithium -ICP-Fusion	ug/g	102.5	-3.00e-3	< 53.94	<50.0600	n/a	n/a	89.00	53.90	n/a
S95T000766		F	Magnesium -ICP-Fusion	ug/g	100.4	1.91e-01	9.92e+02	9.689e2	9.803e2	2.33	91.91	539.0	n/a
S95T000766		F	Manganese -ICP-Fusion	ug/g	99.57	3.90e-02	1.80e+02	1.838e2	1.817e2	2.29	96.93	53.90	n/a
S95T000766		F	Molybdenum -ICP-Fusion	ug/g	101.8	5.00e-03	<2.70e+02	<250.300	n/a	n/a	102.4	270.0	n/a
S95T000766		F	Sodium -ICP-Fusion	ug/g	100.8	5.520	1.09e+05	1.110e5	1.100e5	1.83	87.13	539.0	n/a
S95T000766		F	Neodymium -ICP-Fusion	ug/g	104.5	-2.10e-2	<5.39e+02	<500.600	n/a	n/a	95.61	539.0	n/a
S95T000766		F	Nickel -ICP-Fusion	ug/g	101.4	10.77	8.79e+03	8.810e3	8.800e3	0.26	107.1	108.0	n/a
S95T000766		F	Phosphorus -ICP-Fusion	ug/g	105.0	4.80e-01	2.65e+04	2.790e4	2.720e4	5.03	1.24e+03	1.080e3	n/a
S95T000766		F	Lead -ICP-Fusion	ug/g	101.2	1.46e-01	5.83e+02	6.269e2	6.047e2	7.34	103.1	539.0	n/a
S95T000766		F	Sulfur -ICP-Fusion	ug/g	100.8	7.90e-02	6.13e+03	6.340e3	6.240e3	3.41	103.6	270.0	n/a
S95T000766		F	Antimony -ICP-Fusion	ug/g	96.18	-5.30e-2	<1.08e+03	<1001.20	n/a	n/a	95.70	1.080e3	n/a
S95T000766		F	Selenium -ICP-Fusion	ug/g	103.6	-2.550e0	<5.39e+02	<500.600	n/a	n/a	75.96	539.0	n/a
S95T000766		F	Silicon -ICP-Fusion	ug/g	97.16	3.93e-01	6.62e+02	6.796e2	6.706e2	2.70	101.4	270.0	n/a
S95T000766		F	Samarium -ICP-Fusion	ug/g	102.3	-1.20e-2	<5.39e+02	<500.600	n/a	n/a	94.47	539.0	n/a
S95T000766		F	Strontium -ICP-Fusion	ug/g	99.93	2.00e-03	4.99e+02	5.168e2	5.078e2	3.54	92.24	53.90	n/a
S95T000766		F	Titanium-ICP-Fusion	ug/g	98.55	1.30e-02	1.06e+02	1.171e2	1.118e2	9.50	95.17	53.90	n/a
S95T000766		F	Thallium -ICP-Fusion	ug/g	98.82	4.31e-01	<1.08e+03	<1001.20	n/a	n/a	94.66	1.080e3	n/a
S95T000766		F	Uranium -ICP-Fusion	ug/g	100.9	-4.130e0	6.23e+03	7.060e3	6.650e3	12.4	91.90	2.160e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000766		F	Vanadium -ICP-Fusion	ug/g	97.75	3.00e-03	<2.70e+02	<250.300	n/a	n/a	96.87	270.0	n/a
S95T000766		F	Zinc -ICP-Fusion	ug/g	101.2	1.40e-02	1.68e+02	1.225e2	1.450e2	31.1	99.75	53.90	n/a
S95T000766		F	Zirconium -ICP-Fusion	ug/g	100.4	3.60e-02	< 53.94	<50.0600	n/a	n/a	96.77	53.90	n/a
S95T000980		W	Chloride-IC-Dionex 4000i/4500	ug/g	102.9	<8.300e-2	1.33e+03	1.060e3	1.200e3	22.6	96.00	676.0	n/a
S95T000980		W	Fluoride-IC-Dionex 4000i/4500	ug/g	97.46	<6.200e-2	<5.05e+02	<5.03e2	n/a	n/a	101.1	505.0	n/a
S95T000980		W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.8	<5.320e-1	1.82e+04	1.470e4	1.640e4	21.3	96.90	4.340e3	n/a
S95T000980		W	Nitrate by IC-Dionex4000i/4500	ug/g	98.24	<7.030e-1	1.88e+05	1.490e5	1.680e5	23.1	94.10	5.730e3	n/a
S95T000980		W	Phosphate-IC-Dionex 4000i/4500	ug/g	93.45	<5.720e-1	3.39e+04	2.790e4	3.090e4	19.4	95.20	4.660e3	n/a
S95T000980		W	Sulfate by IC-Dionex4000i/4500	ug/g	96.66	<6.970e-1	1.70e+04	1.390e4	1.540e4	20.1	93.40	5.680e3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000762			% Water by TGA using Mettler	%	95.12	n/a	51.17	5.089e1	5.103e1	0.59	n/a	n/a	n/a
S95T000762			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000762			DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000763		F	Uranium by Phosphorescence	ug/g	108.8	39.20	1.17e+04	1.250e4	1.210e4	6.61	112.0	1.700e-1	n/a
S95T000763		F	Alpha of Digested Solid	uCi/g	93.92	<5.970e-2	<3.28e-02	<3.38e-2	n/a	n/a	92.40	7.500e-2	500.0
S95T000763		F	Americium-241 by GEA	uCi/g	n/a	<7.590e-2	<1.70e-1	<1.74e-1	n/a	n/a	n/a	7.600e-2	n/a
S95T000763		F	Cobalt-60 by GEA	uCi/g	100.0	<1.070e-2	4.54e-03	<5.40e-3	n/a	n/a	n/a	1.100e-2	41.45
S95T000763		F	Cesium-137 by GEA	uCi/g	105.1	7.20e-02	24.90	2.500e1	2.495e1	0.40	n/a	7.200e-2	0.42
S95T000763		F	Europium-154 by GEA	uCi/g	n/a	<3.350e-2	4.73e-02	<2.10e-2	n/a	n/a	n/a	3.400e-2	40.48
S95T000763		F	Europium-155 by GEA	uCi/g	n/a	<2.740e-2	<6.00e-2	<6.02e-2	n/a	n/a	n/a	2.700e-2	n/a
S95T000763		F	Silver -ICP-Fusion	ug/g	101.7	3.00e-03	< 46.01	<47.3300	n/a	n/a	112.3	46.00	n/a
S95T000763		F	Aluminium -ICP-Fusion	ug/g	101.2	1.80e-02	1.23e+03	1.230e3	1.230e3	0.35	95.08	230.0	n/a
S95T000763		F	Arsenic -ICP-Fusion	ug/g	104.9	-8.10e-2	<2.30e+02	<236.650	n/a	n/a	101.2	230.0	n/a
S95T000763		F	Boron -ICP-Fusion	ug/g	101.4	3.00e-02	<2.30e+02	<236.650	n/a	n/a	96.05	230.0	n/a
S95T000763		F	Barium -ICP-Fusion	ug/g	100.3	2.20e-02	<2.30e+02	<236.650	n/a	n/a	92.58	230.0	n/a
S95T000763		F	Beryllium -ICP-Fusion	ug/g	104.8	4.00e-04	< 23.00	<23.6650	n/a	n/a	97.96	23.00	n/a
S95T000763		F	Bismuth -ICP-Fusion	ug/g	102.4	-8.740e0	<4.60e+02	<473.300	n/a	n/a	27.67	460.0	n/a
S95T000763		F	Calcium -ICP-Fusion	ug/g	104.7	6.95e-01	2.52e+03	2.550e3	2.530e3	1.34	101.2	460.0	n/a
S95T000763		F	Cadmium -ICP-Fusion	ug/g	104.1	8.00e-03	< 46.01	<47.3300	n/a	n/a	99.05	46.00	n/a
S95T000763		F	Cerium -ICP-Fusion	ug/g	101.9	-2.20e-2	<4.60e+02	<473.300	n/a	n/a	95.03	460.0	n/a
S95T000763		F	Cobalt -ICP-Fusion	ug/g	103.8	2.00e-04	< 92.02	<94.6600	n/a	n/a	99.37	92.00	n/a
S95T000763		F	Chromium -ICP-Fusion	ug/g	104.3	-4.00e-3	1.12e+02	1.190e2	1.157e2	5.73	99.94	46.00	n/a
S95T000763		F	Copper -ICP-Fusion	ug/g	101.1	9.00e-03	< 46.01	<47.3300	n/a	n/a	95.04	46.00	n/a
S95T000763		F	Iron -ICP-Fusion	ug/g	104.0	8.30e-02	1.97e+04	1.980e4	1.970e4	0.50	96.99	230.0	n/a
S95T000763		F	Lanthanum -ICP-Fusion	ug/g	101.4	-1.40e-2	<2.30e+02	<236.650	n/a	n/a	94.88	230.0	n/a
S95T000763		F	Lithium -ICP-Fusion	ug/g	100.0	1.30e-02	< 46.01	<47.3300	n/a	n/a	92.36	46.00	n/a
S95T000763		F	Magnesium -ICP-Fusion	ug/g	100.8	1.62e-01	5.46e+02	6.246e2	5.854e2	13.4	91.66	460.0	n/a
S95T000763		F	Manganese -ICP-Fusion	ug/g	102.2	4.10e-02	1.29e+02	1.360e2	1.326e2	5.16	94.80	46.00	n/a
S95T000763		F	Molybdenum -ICP-Fusion	ug/g	103.9	-1.10e-2	<2.30e+02	<236.650	n/a	n/a	99.83	230.0	n/a
S95T000763		F	Sodium -ICP-Fusion	ug/g	99.58	4.158	1.14e+05	1.120e5	1.130e5	1.21	36.95	460.0	n/a
S95T000763		F	Neodymium -ICP-Fusion	ug/g	104.2	6.00e-03	<4.60e+02	<473.300	n/a	n/a	97.00	460.0	n/a
S95T000763		F	Nickel -ICP-Fusion	ug/g	103.5	13.32	4.59e+03	5.830e3	5.210e3	23.8	100.2	92.00	n/a
S95T000763		F	Phosphorus -ICP-Fusion	ug/g	104.2	1.38e-01	2.30e+04	2.290e4	2.300e4	0.60	92.57	920.0	n/a
S95T000763		F	Lead -ICP-Fusion	ug/g	104.2	3.61e-01	<4.60e+02	<473.300	n/a	n/a	107.2	460.0	n/a
S95T000763		F	Sulfur -ICP-Fusion	ug/g	103.0	2.02e-01	6.63e+03	6.510e3	6.570e3	1.74	97.25	230.0	n/a
S95T000763		F	Antimony -ICP-Fusion	ug/g	97.69	-5.70e-2	<9.20e+02	<946.600	n/a	n/a	94.79	920.0	n/a
S95T000763		F	Selenium -ICP-Fusion	ug/g	104.4	-2.020e0	<4.60e+02	<473.300	n/a	n/a	78.37	460.0	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000763		F	Silicon -ICP-Fusion	ug/g	94.02	4.33e-01	4.66e+02	5.791e2	5.223e2	21.7	98.00	230.0	n/a
S95T000763		F	Samarium -ICP-Fusion	ug/g	101.5	1.54e-01	<4.60e+02	<473.300	n/a	n/a	96.18	460.0	n/a
S95T000763		F	Strontium -ICP-Fusion	ug/g	99.56	4.00e-03	4.73e+02	4.716e2	4.724e2	0.34	92.79	46.00	n/a
S95T000763		F	Titanium-ICP-Fusion	ug/g	99.12	2.00e-02	61.00	6.488e1	6.294e1	6.17	942.7	46.00	n/a
S95T000763		F	Thallium -ICP-Fusion	ug/g	101.2	2.11e-01	<9.20e+02	<946.600	n/a	n/a	91.45	920.0	n/a
S95T000763		F	Uranium -ICP-Fusion	ug/g	100.1	-2.510e0	1.03e+04	9.970e3	1.010e4	3.39	93.93	1.840e3	n/a
S95T000763		F	Vanadium -ICP-Fusion	ug/g	99.01	4.90e-02	<2.30e+02	<236.650	n/a	n/a	98.02	230.0	n/a
S95T000763		F	Zinc -ICP-Fusion	ug/g	104.4	4.40e-02	1.10e+02	1.024e2	1.064e2	7.58	100.5	46.00	n/a
S95T000763		F	Zirconium -ICP-Fusion	ug/g	101.1	9.20e-02	< 46.01	<47.3300	n/a	n/a	96.03	46.00	n/a
S95T000977		W	Chloride-IC-Dionex 4000i/4500	ug/g	102.9	<8.300e-2	1.22e+03	1.060e3	1.140e3	14.0	100.8	564.0	n/a
S95T000977		W	Fluoride-IC-Dionex 4000i/4500	ug/g	97.46	<6.200e-2	<4.21e+02	<4.14e2	n/a	n/a	99.80	421.0	n/a
S95T000977		W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.8	<5.320e-1	1.59e+04	1.400e4	1.500e4	12.7	103.4	3.620e3	n/a
S95T000977		W	Nitrate by IC-Dionex4000i/4500	ug/g	98.24	<7.030e-1	1.79e+05	1.560e5	1.680e5	13.7	153.6	4.780e3	n/a
S95T000977		W	Phosphate-IC-Dionex 4000i/4500	ug/g	93.45	<5.720e-1	2.34e+04	2.040e4	2.190e4	13.7	103.1	3.890e3	n/a
S95T000977		W	Sulfate by IC-Dionex4000i/4500	ug/g	96.66	<6.970e-1	1.58e+04	1.400e4	1.490e4	12.1	101.5	4.740e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 84
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000771			% Water by TGA on Perkin Elmer	%	97.92	n/a	48.91	4.902e1	4.897e1	0.22	n/a	n/a	n/a
S95T000771			DSC Exotherm on Perkin Elmer	Joules/g	96.52	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000771			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000772		F	Uranium by Phosphorescence	ug/g	94.42	49.80	2.10e+04	2.240e4	2.170e4	6.45	143.0	1.850e-1	n/a
S95T000772		F	Alpha of Digested Solid	uCi/g	88.18	<3.010e-2	<4.54e-02	<5.29e-2	n/a	n/a	89.20	6.900e-2	500.0
S95T000772		F	Americium-241 by GEA	uCi/g	n/a	<7.880e-2	<3.49e-01	<3.54e-1	n/a	n/a	n/a	7.900e-2	n/a
S95T000772		F	Cobalt-60 by GEA	uCi/g	99.53	<1.340e-2	<1.77e-02	<1.97e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000772		F	Cesium-137 by GEA	uCi/g	106.4	<3.040e-2	14.20	1.520e1	1.470e1	6.80	n/a	3.000e-2	1.29
S95T000772		F	Europium-154 by GEA	uCi/g	n/a	<3.590e-2	<5.22e-02	<4.65e-2	n/a	n/a	n/a	3.600e-2	n/a
S95T000772		F	Europium-155 by GEA	uCi/g	n/a	<2.840e-2	<1.26e-01	<1.24e-1	n/a	n/a	n/a	2.800e-2	n/a
S95T000772		F	Silver -ICP-Fusion	ug/g	100.6	1.00e-02	< 50.00	<49.9200	n/a	n/a	70.79	50.00	n/a
S95T000772		F	Aluminium -ICP-Fusion	ug/g	101.0	2.83e-01	9.46e+02	8.247e2	8.853e2	13.7	93.99	250.0	n/a
S95T000772		F	Arsenic -ICP-Fusion	ug/g	105.0	1.40e-01	<2.50e+02	<249.600	n/a	n/a	102.0	250.0	n/a
S95T000772		F	Boron -ICP-Fusion	ug/g	101.6	4.00e-03	<2.50e+02	<249.600	n/a	n/a	95.43	250.0	n/a
S95T000772		F	Barium -ICP-Fusion	ug/g	100.3	1.00e-02	<2.50e+02	<249.600	n/a	n/a	91.63	250.0	n/a
S95T000772		F	Beryllium -ICP-Fusion	ug/g	105.4	-4.00e-3	< 25.00	<24.9600	n/a	n/a	97.86	25.00	n/a
S95T000772		F	Bismuth -ICP-Fusion	ug/g	102.2	-9.380e0	<5.00e+02	<499.200	n/a	n/a	18.89	500.0	n/a
S95T000772		F	Calcium -ICP-Fusion	ug/g	105.0	8.86e-01	2.41e+03	2.180e3	2.300e3	10.3	96.16	500.0	n/a
S95T000772		F	Cadmium -ICP-Fusion	ug/g	105.0	1.00e-02	< 50.00	<49.9200	n/a	n/a	98.32	50.00	n/a
S95T000772		F	Cerium -ICP-Fusion	ug/g	102.4	6.70e-02	<5.00e+02	<499.200	n/a	n/a	95.39	500.0	n/a
S95T000772		F	Cobalt -ICP-Fusion	ug/g	104.4	7.00e-03	< 99.90	<99.8400	n/a	n/a	97.31	99.90	n/a
S95T000772		F	Chromium -ICP-Fusion	ug/g	104.6	1.50e-02	1.87e+02	1.688e2	1.777e2	10.1	98.59	50.00	n/a
S95T000772		F	Copper -ICP-Fusion	ug/g	102.0	6.50e-02	55.66	8.646e1	7.106e1	43.4	94.69	50.00	n/a
S95T000772		F	Iron -ICP-Fusion	ug/g	104.3	1.64e-01	3.00e+04	2.790e4	2.900e4	7.24	83.90	250.0	n/a
S95T000772		F	Lantharum -ICP-Fusion	ug/g	102.0	8.00e-03	<2.50e+02	<249.600	n/a	n/a	94.29	250.0	n/a
S95T000772		F	Lithium -ICP-Fusion	ug/g	99.95	7.00e-03	< 50.00	<49.9200	n/a	n/a	91.54	50.00	n/a
S95T000772		F	Magnesium -ICP-Fusion	ug/g	100.6	3.60e-01	6.13e+02	5.496e2	5.811e2	10.8	91.51	500.0	n/a
S95T000772		F	Manganese -ICP-Fusion	ug/g	102.3	3.30e-02	1.44e+02	1.310e2	1.377e2	9.64	93.28	50.00	n/a
S95T000772		F	Molybdenum -ICP-Fusion	ug/g	104.4	-1.30e-2	<2.50e+02	<249.600	n/a	n/a	99.57	250.0	n/a
S95T000772		F	Sodium -ICP-Fusion	ug/g	99.04	4.841	1.07e+05	1.100e5	1.090e5	2.85	94.43	500.0	n/a
S95T000772		F	Neodymium -ICP-Fusion	ug/g	104.3	5.00e-02	<5.00e+02	<499.200	n/a	n/a	96.67	500.0	n/a
S95T000772		F	Nickel -ICP-Fusion	ug/g	104.4	8.345	3.58e+03	4.860e3	4.220e3	30.4	96.06	99.90	n/a
S95T000772		F	Phosphorus -ICP-Fusion	ug/g	104.8	-3.00e-2	2.35e+04	2.250e4	2.300e4	4.41	101.7	999.0	n/a
S95T000772		F	Lead -ICP-Fusion	ug/g	104.9	4.55e-01	9.37e+02	6.840e2	8.104e2	31.2	92.98	500.0	n/a
S95T000772		F	Sulfur -ICP-Fusion	ug/g	103.0	1.02e-01	6.18e+03	6.370e3	6.280e3	3.01	97.71	250.0	n/a
S95T000772		F	Antimony -ICP-Fusion	ug/g	98.15	-3.50e-2	<9.99e+02	<998.400	n/a	n/a	94.48	999.0	n/a
S95T000772		F	Selenium -ICP-Fusion	ug/g	104.9	-2.520e0	<5.00e+02	<499.200	n/a	n/a	74.00	500.0	n/a
S95T000772		F	Silicon -ICP-Fusion	ug/g	96.64	3.29e-01	9.28e+02	8.415e2	8.849e2	9.81	94.12	250.0	n/a
S95T000772		F	Samarium -ICP-Fusion	ug/g	102.2	1.25e-01	<5.00e+02	<499.200	n/a	n/a	94.26	500.0	n/a
S95T000772		F	Strontium -ICP-Fusion	ug/g	99.90	-2.00e-3	9.17e+02	8.729e2	8.951e2	4.97	92.01	50.00	n/a
S95T000772		F	Titanium-ICP-Fusion	ug/g	99.53	1.70e-02	< 50.00	<49.9200	n/a	n/a	94.08	50.00	n/a
S95T000772		F	Thallium -ICP-Fusion	ug/g	101.3	6.60e-02	<9.99e+02	<998.400	n/a	n/a	95.29	999.0	n/a
S95T000772		F	Uranium -ICP-Fusion	ug/g	100.8	-3.270e0	1.63e+04	1.640e4	1.630e4	0.74	90.34	2.000e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000772		F	Vanadium -ICP-Fusion	ug/g	99.52	4.40e-02	<2.50e+02	<249.600	n/a	n/a	94.23	250.0	n/a
S95T000772		F	Zinc -ICP-Fusion	ug/g	104.5	6.40e-02	2.14e+02	1.939e2	2.038e2	9.73	98.68	50.00	n/a
S95T000772		F	Zirconium -ICP-Fusion	ug/g	101.8	2.40e-02	< 50.00	<49.9200	n/a	n/a	95.00	50.00	n/a
S95T000982		W	Chloride-IC-Dionex 4000i/4500	ug/g	104.3	<8.000e-2	1.43e+03	1.390e3	1.410e3	2.84	n/a	775.0	n/a
S95T000982		W	Fluoride-IC-Dionex 4000i/4500	ug/g	104.6	<6.000e-2	<5.81e+02	<5.75e2	n/a	n/a	n/a	581.0	n/a
S95T000982		W	Nitrite-IC - Dionex 4000i/4500	ug/g	101.7	<5.000e-1	1.73e+04	1.710e4	1.720e4	1.16	n/a	4.840e3	n/a
S95T000982		W	Nitrate by IC-Dionex4000i/4500	ug/g	105.0	<7.000e-1	2.11e+05	2.080e5	2.100e5	1.43	n/a	6.780e3	n/a
S95T000982		W	Phosphate-IC-Dionex 4000i/4500	ug/g	96.15	<5.000e-1	2.69e+04	2.670e4	2.680e4	0.75	n/a	4.840e3	n/a
S95T000982		W	Sulfate by IC-Dionex4000i/4500	ug/g	101.7	<7.000e-1	1.91e+04	1.870e4	1.890e4	2.12	n/a	6.780e3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000747			Bulk Density of Sample	g/mL	n/a	n/a	1.520	n/a	n/a	n/a	n/a	5.000e-1	n/a
S95T000768			% Water by TGA on Perkin Elmer	%	97.16	n/a	49.52	4.867e1	4.909e1	1.73	n/a	n/a	n/a
S95T000768			DSC Exotherm on Perkin Elmer	Joules/g	95.68	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000768			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000768			TOC by Persulfate/Coulometry	ug/g	93.00	1.600	4.57e+02	3.760e2	4.165e2	19.4	91.00	40.00	n/a
S95T000768			TIC by Acid/Coulometry	ug/g	97.18	4.00e-01	2.59e+02	2.620e2	2.605e2	1.15	99.00	5.000	n/a
S95T000769		F	Uranium by Phosphorescence	ug/g	109.8	53.80	2.79e+04	2.830e4	2.810e4	1.42	138.0	1.850e-1	n/a
S95T000769		F	Alpha of Digested Solid	uCi/g	93.92	<3.850e-2	<5.40e-02	<5.28e-2	n/a	n/a	92.10	8.100e-2	500.0
S95T000769		F	Beta of Solid Sample	uCi/g	118.2	1.27e-01	2.72e+02	2.690e2	2.705e2	1.11	109.9	8.300e-2	3.61E-01
S95T000769		F	Americium-241 by GEA	uCi/g	n/a	<1.020e-1	<2.98e-01	<3.04e-1	n/a	n/a	n/a	1.020e-1	n/a
S95T000769		F	Cobalt-60 by GEA	uCi/g	99.53	<1.730e-2	<1.35e-02	<1.54e-2	n/a	n/a	n/a	1.700e-2	n/a
S95T000769		F	Cesium-137 by GEA	uCi/g	103.4	<3.740e-2	8.690	8.650e0	8.670e0	0.46	n/a	3.700e-2	1.86
S95T000769		F	Europium-154 by GEA	uCi/g	n/a	<3.160e-2	<5.49e-02	<6.31e-2	n/a	n/a	n/a	3.200e-2	n/a
S95T000769		F	Europium-155 by GEA	uCi/g	n/a	<4.230e-2	<1.34e-01	<1.36e-1	n/a	n/a	n/a	4.200e-2	n/a
S95T000769		F	Silver -ICP-Fusion	ug/g	98.57	-4.00e-3	< 50.00	<50.7200	n/a	n/a	74.11	50.00	n/a
S95T000769		F	Aluminium -ICP-Fusion	ug/g	100.7	3.09e-01	4.90e+02	4.869e2	4.884e2	0.62	96.18	250.0	n/a
S95T000769		F	Arsenic -ICP-Fusion	ug/g	102.9	-3.80e-2	<2.50e+02	<253.600	n/a	n/a	100.8	250.0	n/a
S95T000769		F	Boron -ICP-Fusion	ug/g	100.3	-6.00e-3	<2.50e+02	<253.600	n/a	n/a	95.16	250.0	n/a
S95T000769		F	Barium -ICP-Fusion	ug/g	99.93	4.00e-03	<2.50e+02	<253.600	n/a	n/a	92.98	250.0	n/a
S95T000769		F	Beryllium -ICP-Fusion	ug/g	104.6	2.00e-03	< 25.00	<25.3600	n/a	n/a	97.34	25.00	n/a
S95T000769		F	Bismuth -ICP-Fusion	ug/g	101.7	-1.020e1	<5.00e+02	<507.200	n/a	n/a	10.00	500.0	n/a
S95T000769		F	Calcium -ICP-Fusion	ug/g	100.4	5.39e-01	1.16e+03	1.130e3	1.140e3	2.85	98.16	500.0	n/a
S95T000769		F	Cadmium -ICP-Fusion	ug/g	101.6	-2.00e-3	< 50.00	<50.7200	n/a	n/a	97.80	50.00	n/a
S95T000769		F	Cerium -ICP-Fusion	ug/g	101.5	-7.40e-2	<5.00e+02	<507.200	n/a	n/a	95.93	500.0	n/a
S95T000769		F	Cobalt -ICP-Fusion	ug/g	101.4	-4.00e-3	< 99.94	<101.440	n/a	n/a	96.64	99.90	n/a
S95T000769		F	Chromium -ICP-Fusion	ug/g	101.8	5.00e-03	1.43e+02	1.375e2	1.400e2	3.61	98.40	50.00	n/a
S95T000769		F	Copper -ICP-Fusion	ug/g	101.4	2.20e-02	< 50.00	<50.7200	n/a	n/a	96.34	50.00	n/a
S95T000769		F	Iron -ICP-Fusion	ug/g	102.0	4.80e-02	2.12e+04	2.100e4	2.110e4	1.27	91.23	250.0	n/a
S95T000769		F	Lanthanum -ICP-Fusion	ug/g	101.8	-9.00e-3	<2.50e+02	<253.600	n/a	n/a	95.29	250.0	n/a
S95T000769		F	Lithium -ICP-Fusion	ug/g	102.5	-3.00e-3	< 50.00	<50.7200	n/a	n/a	95.06	50.00	n/a
S95T000769		F	Magnesium -ICP-Fusion	ug/g	100.4	1.91e-01	<5.00e+02	<507.200	n/a	n/a	99.89	500.0	n/a
S95T000769		F	Manganese -ICP-Fusion	ug/g	99.57	3.90e-02	1.09e+02	1.001e2	1.045e2	8.42	93.73	50.00	n/a
S95T000769		F	Molybdenum -ICP-Fusion	ug/g	101.8	5.00e-03	<2.50e+02	<253.600	n/a	n/a	98.70	250.0	n/a
S95T000769		F	Sodium -ICP-Fusion	ug/g	100.8	5.520	1.13e+05	1.120e5	1.130e5	0.68	96.06	500.0	n/a
S95T000769		F	Neodymium -ICP-Fusion	ug/g	104.5	-2.10e-2	<5.00e+02	<507.200	n/a	n/a	97.54	500.0	n/a
S95T000769		F	Nickel -ICP-Fusion	ug/g	101.4	10.77	7.79e+03	4.970e3	6.380e3	44.2	87.16	99.90	n/a
S95T000769		F	Phosphorus -ICP-Fusion	ug/g	105.0	4.80e-01	2.02e+04	1.960e4	1.990e4	2.99	91.02	999.0	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000769		F	Lead -ICP-Fusion	ug/g	101.2	1.46e-01	<5.00e+02	<507.200	n/a	n/a	107.2	500.0	n/a
S95T000769		F	Sulfur -ICP-Fusion	ug/g	100.8	7.90e-02	6.58e+03	6.510e3	6.540e3	0.99	98.69	250.0	n/a
S95T000769		F	Antimony -ICP-Fusion	ug/g	96.18	-5.30e-2	<9.99e+02	<1014.40	n/a	n/a	94.53	999.0	n/a
S95T000769		F	Selenium -ICP-Fusion	ug/g	103.6	-2.550e0	<5.00e+02	<507.200	n/a	n/a	67.67	500.0	n/a
S95T000769		F	Silicon -ICP-Fusion	ug/g	97.16	3.93e-01	7.71e+02	7.360e2	7.536e2	4.69	95.41	250.0	n/a
S95T000769		F	Samarium -ICP-Fusion	ug/g	102.3	-1.20e-2	<5.00e+02	<507.200	n/a	n/a	94.99	500.0	n/a
S95T000769		F	Strontium -ICP-Fusion	ug/g	99.93	2.00e-03	6.73e+02	6.597e2	6.665e2	2.04	93.24	50.00	n/a
S95T000769		F	Titanium-ICP-Fusion	ug/g	98.55	1.30e-02	< 50.00	<50.7200	n/a	n/a	94.32	50.00	n/a
S95T000769		F	Thallium -ICP-Fusion	ug/g	98.82	4.31e-01	<9.99e+02	<1014.40	n/a	n/a	96.64	999.0	n/a
S95T000769		F	Uranium -ICP-Fusion	ug/g	100.9	-4.130e0	2.64e+04	2.630e4	2.630e4	0.07	90.90	2.000e3	n/a
S95T000769		F	Vanadium -ICP-Fusion	ug/g	97.75	3.00e-03	<2.50e+02	<253.600	n/a	n/a	94.05	250.0	n/a
S95T000769		F	Zinc -ICP-Fusion	ug/g	101.2	1.40e-02	1.27e+02	1.860e2	1.567e2	37.4	98.80	50.00	n/a
S95T000769		F	Zirconium -ICP-Fusion	ug/g	100.4	3.60e-02	< 50.00	<50.7200	n/a	n/a	95.49	50.00	n/a
S95T000769		F	Strontium-89/90 High Level	uCi/g	93.50	<3.100e-2	1.31e+02	1.310e2	1.310e2	0.00	n/a	5.700e-2	6.56E-01
S95T000981		W	Chloride-IC-Dionex 4000i/4500	ug/g	104.3	<8.000e-2	1.51e+03	1.660e3	1.580e3	9.46	96.10	815.0	n/a
S95T000981		W	Fluoride-IC-Dionex 4000i/4500	ug/g	104.6	<6.000e-2	<6.11e+02	<5.87e2	n/a	n/a	96.40	611.0	n/a
S95T000981		W	Nitrite-IC - Dionex 4000i/4500	ug/g	101.7	<5.000e-1	1.62e+04	1.730e4	1.680e4	6.57	93.90	5.100e3	n/a
S95T000981		W	Nitrate by IC-Dionex4000i/4500	ug/g	105.0	<7.000e-1	2.14e+05	2.280e5	2.210e5	6.33	103.5	7.130e3	n/a
S95T000981		W	Phosphate-IC-Dionex 4000i/4500	ug/g	96.15	<5.000e-1	2.42e+04	2.520e4	2.470e4	4.05	88.10	5.100e3	n/a
S95T000981		W	Sulfate by IC-Dionex4000i/4500	ug/g	101.7	<7.000e-1	1.95e+04	2.030e4	1.990e4	4.02	93.20	7.130e3	n/a
S96T001568		I	Silver -ICP-H20 Dig/Acid	ug/g	101.0	<1.000e-2	8.01e-02	8.690e-2	8.350e-2	8.14	95.20	2.500e-2	n/a
S96T001568		I	Aluminium -ICP-H20 Dig/Acid	ug/g	99.60	<5.000e-2	<1.25e-01	<1.25e-1	n/a	n/a	102.8	1.250e-1	n/a
S96T001568		I	Arsenic -ICP-H20 Dig/Acid	ug/g	103.2	<1.000e-1	<2.50e-01	<2.50e-1	n/a	n/a	104.4	2.500e-1	n/a
S96T001568		I	Boron -ICP-H20 Dig/Acid	ug/g	100.8	<5.000e-2	3.94e-01	4.240e-1	4.090e-1	7.33	100.6	1.250e-1	n/a
S96T001568		I	Barium -ICP-H20 Dig/Acid	ug/g	104.4	<5.000e-2	<1.25e-01	<1.25e-1	n/a	n/a	103.6	1.250e-1	n/a
S96T001568		I	Beryllium -ICP-H20 Dig/Acid	ug/g	103.8	<5.000e-3	<1.25e-02	<1.25e-2	n/a	n/a	102.8	1.300e-2	n/a
S96T001568		I	Bismuth -ICP-H20 Dig/Acid	ug/g	102.8	<1.000e-1	<2.50e-01	<2.50e-1	n/a	n/a	101.2	2.500e-1	n/a
S96T001568		I	Calcium -ICP-H20 Dig/Acid	ug/g	102.4	3.30e-01	1.680	2.700e0	2.190e0	46.6	103.9	2.500e-1	n/a
S96T001568		I	Cadmium -ICP-H20 Dig/Acid	ug/g	100.8	<5.000e-3	<1.25e-02	<1.25e-2	n/a	n/a	102.0	1.300e-2	n/a
S96T001568		I	Cerium -ICP-H20 Dig/Acid	ug/g	106.0	<1.000e-1	<2.50e-01	<2.50e-1	n/a	n/a	108.4	2.500e-1	n/a
S96T001568		I	Cobalt -ICP-H20 Dig/Acid	ug/g	102.4	<2.000e-2	<5.00e-02	<5.00e-2	n/a	n/a	103.2	5.000e-2	n/a
S96T001568		I	Chromium -ICP-H20 Dig/Acid	ug/g	102.8	<1.000e-2	5.46e-01	5.890e-1	5.680e-1	7.58	104.2	2.500e-2	n/a
S96T001568		I	Copper -ICP-H20 Dig/Acid	ug/g	105.8	<1.000e-2	<2.50e-02	<2.50e-2	n/a	n/a	105.2	2.500e-2	n/a
S96T001568		I	Iron -ICP-H20 Dig/Acid	ug/g	102.6	<5.000e-2	<1.25e-01	<1.25e-1	n/a	n/a	103.2	1.250e-1	n/a
S96T001568		I	Potassium -ICP-H20 Dig/Acid	ug/g	101.2	<5.000e-1	< 1.250	<1.25e0	n/a	n/a	166.4	1.250	n/a
S96T001568		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	104.2	<5.000e-2	<1.25e-01	<1.25e-1	n/a	n/a	104.8	1.250e-1	n/a
S96T001568		I	Lithium -ICP-H20 Dig/Acid	ug/g	103.2	<1.000e-2	6.11e-02	7.680e-2	6.890e-2	22.8	101.6	2.500e-2	n/a
S96T001568		I	Magnesium -ICP-H20 Dig/Acid	ug/g	98.40	<1.000e-1	4.56e-01	7.930e-1	6.250e-1	54.0	97.40	2.500e-1	n/a
S96T001568		I	Manganese -ICP-H20 Dig/Acid	ug/g	100.2	<1.000e-2	<2.50e-02	<2.50e-2	n/a	n/a	98.40	2.500e-2	n/a
S96T001568		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	102.4	<5.000e-2	<1.25e-01	<1.25e-1	n/a	n/a	105.6	1.250e-1	n/a
S96T001568		I	Sodium -ICP-H20 Dig/Acid	ug/g	102.0	2.480	1.10e+03	1.190e3	1.140e3	7.86	n/a	2.500e-1	n/a
S96T001568		I	Neodymium -ICP-H20 Dig/Acid	ug/g	105.6	<1.000e-1	<2.50e-01	<2.50e-1	n/a	n/a	105.6	2.500e-1	n/a
S96T001568		I	Nickel -ICP-H20 Dig/Acid	ug/g	101.2	<2.000e-2	<5.00e-02	<5.00e-2	n/a	n/a	101.2	5.000e-2	n/a
S96T001568		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	99.40	<2.000e-1	84.00	8.900e1	8.650e1	5.78	89.10	5.000e-1	n/a
S96T001568		I	Lead -ICP-H20 Dig/Acid	ug/g	100.4	<1.000e-1	<2.50e-01	<2.50e-1	n/a	n/a	102.8	2.500e-1	n/a
S96T001568		I	Sulfur -ICP-H20 Dig/Acid	ug/g	98.40	<1.000e-1	70.20	7.630e1	7.325e1	8.33	71.90	2.500e-1	n/a
S96T001568		I	Antimony -ICP-H20 Dig/Acid	ug/g	96.80	<6.000e-2	<1.50e-01	<1.50e-1	n/a	n/a	99.20	1.500e-1	n/a
S96T001568		I	Selenium -ICP-H20 Dig/Acid	ug/g	98.00	<1.000e-1	<2.50e-01	<2.50e-1	n/a	n/a	104.4	2.500e-1	n/a
S96T001568		I	Silicon -ICP-H20 Dig/Acid	ug/g	95.00	1.400	6.250	1.560e1	1.093e1	85.6	96.60	1.250e-1	n/a
S96T001568		I	Samarium -ICP-H20 Dig/Acid	ug/g	101.8	<1.000e-1	<2.50e-01	<2.50e-1	n/a	n/a	100.8	2.500e-1	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001568		1	Strontium -ICP-H2O Dig/Acid	ug/g	102.6	<1.000e-2	4.85e-02	6.040e-2	5.440e-2	21.9	102.5	2.500e-2	n/a
S96T001568		1	Titanium-ICP-H2O Dig/Acid	ug/g	100.2	<1.000e-2	<2.50e-02	<2.50e-2	n/a	n/a	100.8	2.500e-2	n/a
S96T001568		1	Thallium -ICP-H2O Dig/Acid	ug/g	98.20	<2.000e-1	<5.00e-01	<5.00e-1	n/a	n/a	96.80	5.000e-1	n/a
S96T001568		1	Uranium -ICP-H2O Dig/Acid	ug/g	101.0	<5.000e-1	< 1.250	<1.25e0	n/a	n/a	100.6	1.250	n/a
S96T001568		1	Vanadium -ICP-H2O Dig/Acid	ug/g	102.8	<5.000e-2	<1.25e-01	<1.25e-1	n/a	n/a	103.2	1.250e-1	n/a
S96T001568		1	Zinc -ICP-H2O Dig/Acid	ug/g	101.4	<1.000e-2	4.72e-02	4.590e-2	4.660e-2	2.79	103.3	2.500e-2	n/a
S96T001568		1	Zirconium -ICP-H2O Dig/Acid	ug/g	101.6	<1.000e-2	<2.50e-02	<2.50e-2	n/a	n/a	101.6	2.500e-2	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 84
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000777			% Water by TGA using Mettler	%	99.97	n/a	52.78	5.292e1	5.285e1	0.26	n/a	n/a	n/a
S95T000777			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000777			DSC Exotherm using Mettler	Joules/g	93.50	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000778		F	Uranium by Phosphorescence	ug/g	93.59	46.90	1.76e+04	1.770e4	1.760e4	0.57	82.50	1.990e-1	n/a
S95T000778		F	Alpha of Digested Solid	uCi/g	101.4	<3.500e-2	<3.50e-02	<3.34e-2	n/a	n/a	89.80	8.100e-2	500.0
S95T000778		F	Americium-241 by GEA	uCi/g	n/a	<8.740e-2	<3.35e-01	<3.16e-1	n/a	n/a	n/a	8.700e-2	n/a
S95T000778		F	Cobalt-60 by GEA	uCi/g	98.12	<1.690e-2	<1.81e-02	<1.08e-2	n/a	n/a	n/a	1.700e-2	n/a
S95T000778		F	Cesium-137 by GEA	uCi/g	103.0	<3.640e-2	14.90	1.350e1	1.420e1	9.86	n/a	3.600e-2	1.46
S95T000778		F	Europium-154 by GEA	uCi/g	n/a	<4.310e-2	<5.05e-02	<4.88e-2	n/a	n/a	n/a	4.300e-2	n/a
S95T000778		F	Europium-155 by GEA	uCi/g	n/a	<3.540e-2	<1.46e-01	<1.38e-1	n/a	n/a	n/a	3.500e-2	n/a
S95T000778		F	Silver -ICP-Fusion	ug/g	98.75	-1.00e-3	< 53.69	<51.2500	n/a	n/a	66.53	53.70	n/a
S95T000778		F	Aluminium -ICP-Fusion	ug/g	99.94	2.26e-01	4.65e+02	6.606e2	5.627e2	34.8	94.42	268.0	n/a
S95T000778		F	Arsenic -ICP-Fusion	ug/g	102.6	1.50e-01	<2.68e+02	<256.250	n/a	n/a	105.2	268.0	n/a
S95T000778		F	Boron -ICP-Fusion	ug/g	99.65	-4.00e-2	<2.68e+02	<256.250	n/a	n/a	94.07	268.0	n/a
S95T000778		F	Barium -ICP-Fusion	ug/g	98.58	1.50e-02	<2.68e+02	<256.250	n/a	n/a	90.14	268.0	n/a
S95T000778		F	Beryllium -ICP-Fusion	ug/g	104.2	-4.00e-3	< 26.84	<25.6250	n/a	n/a	99.23	26.80	n/a
S95T000778		F	Bismuth -ICP-Fusion	ug/g	100.5	-8.350e0	<5.37e+02	<512.500	n/a	n/a	10.00	537.0	n/a
S95T000778		F	Calcium -ICP-Fusion	ug/g	102.6	6.53e-01	1.17e+03	1.050e3	1.110e3	10.2	104.0	537.0	n/a
S95T000778		F	Cadmium -ICP-Fusion	ug/g	102.8	-2.00e-3	< 53.69	<51.2500	n/a	n/a	102.7	53.70	n/a
S95T000778		F	Cerium -ICP-Fusion	ug/g	101.1	-3.90e-2	<5.37e+02	<512.500	n/a	n/a	93.26	537.0	n/a
S95T000778		F	Cobalt -ICP-Fusion	ug/g	102.2	2.00e-02	<1.07e+02	<102.500	n/a	n/a	100.7	107.0	n/a
S95T000778		F	Chromium -ICP-Fusion	ug/g	102.3	8.00e-03	1.26e+02	1.280e2	1.268e2	1.89	101.8	53.70	n/a
S95T000778		F	Copper -ICP-Fusion	ug/g	101.0	2.40e-02	< 53.69	<51.2500	n/a	n/a	93.62	53.70	n/a
S95T000778		F	Iron -ICP-Fusion	ug/g	102.6	7.90e-02	1.30e+04	1.340e4	1.320e4	3.15	107.1	268.0	n/a
S95T000778		F	Lanthanum -ICP-Fusion	ug/g	101.1	-1.30e-2	<2.68e+02	<256.250	n/a	n/a	93.67	268.0	n/a
S95T000778		F	Lithium -ICP-Fusion	ug/g	99.36	4.00e-03	< 53.69	<51.2500	n/a	n/a	88.38	53.70	n/a
S95T000778		F	Magnesium -ICP-Fusion	ug/g	99.53	3.35e-01	<5.37e+02	<512.500	n/a	n/a	97.19	537.0	n/a
S95T000778		F	Manganese -ICP-Fusion	ug/g	99.73	3.30e-02	83.23	8.001e1	8.162e1	3.94	96.43	53.70	n/a
S95T000778		F	Molybdenum -ICP-Fusion	ug/g	102.3	-1.30e-2	<2.68e+02	<256.250	n/a	n/a	102.5	268.0	n/a
S95T000778		F	Sodium -ICP-Fusion	ug/g	98.05	4.044	1.02e+05	1.040e5	1.030e5	1.72	0.00e+00	537.0	n/a
S95T000778		F	Neodymium -ICP-Fusion	ug/g	103.6	3.40e-02	<5.37e+02	<512.500	n/a	n/a	95.06	537.0	n/a
S95T000778		F	Nickel -ICP-Fusion	ug/g	101.2	7.827	6.57e+03	5.250e3	5.910e3	22.4	106.5	107.0	n/a
S95T000778		F	Phosphorus -ICP-Fusion	ug/g	103.5	1.01e-01	1.72e+04	1.740e4	1.730e4	1.02	118.4	1.070e3	n/a
S95T000778		F	Lead -ICP-Fusion	ug/g	102.0	4.79e-01	8.43e+02	8.204e2	8.319e2	2.78	102.4	537.0	n/a
S95T000778		F	Sulfur -ICP-Fusion	ug/g	101.0	1.67e-01	6.91e+03	7.010e3	6.960e3	1.56	103.8	268.0	n/a
S95T000778		F	Antimony -ICP-Fusion	ug/g	96.73	2.20e-02	<1.07e+03	<1025.00	n/a	n/a	96.88	1.070e3	n/a
S95T000778		F	Selenium -ICP-Fusion	ug/g	102.9	-2.200e0	<5.37e+02	<512.500	n/a	n/a	74.65	537.0	n/a
S95T000778		F	Silicon -ICP-Fusion	ug/g	94.52	3.55e-01	5.68e+02	5.274e2	5.478e2	7.44	98.24	268.0	n/a
S95T000778		F	Samarium -ICP-Fusion	ug/g	101.5	1.09e-01	<5.37e+02	<512.500	n/a	n/a	95.44	537.0	n/a
S95T000778		F	Strontium -ICP-Fusion	ug/g	99.15	-2.00e-3	3.96e+02	4.095e2	4.025e2	3.45	92.02	53.70	n/a
S95T000778		F	Titanium-ICP-Fusion	ug/g	98.64	2.10e-02	< 53.69	<51.2500	n/a	n/a	95.14	53.70	n/a
S95T000778		F	Thallium -ICP-Fusion	ug/g	100.6	4.00e-02	<1.07e+03	<1025.00	n/a	n/a	98.05	1.070e3	n/a
S95T000778		F	Uranium -ICP-Fusion	ug/g	100.2	-3.020e0	1.39e+04	1.440e4	1.420e4	3.77	93.64	2.150e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000778		F	Vanadium -ICP-Fusion	ug/g	97.88	3.30e-02	<2.68e+02	<256.250	n/a	n/a	96.87	268.0	n/a
S95T000778		F	Zinc -ICP-Fusion	ug/g	102.1	1.54e-01	1.54e+02	1.009e2	1.274e2	41.6	101.8	53.70	n/a
S95T000778		F	Zirconium -ICP-Fusion	ug/g	100.4	4.20e-02	< 53.69	<51.2500	n/a	n/a	96.71	53.70	n/a
S95T000984		W	Chloride-IC-Dionex 4000i/4500	ug/g	102.5	<8.000e-2	1.43e+03	1.430e3	1.430e3	0.00	98.70	786.0	n/a
S95T000984		W	Fluoride-IC-Dionex 4000i/4500	ug/g	98.47	<6.000e-2	<5.89e+02	<5.81e2	n/a	n/a	96.30	589.0	n/a
S95T000984		W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.9	<5.000e-1	1.59e+04	1.570e4	1.580e4	1.27	97.40	4.910e3	n/a
S95T000984		W	Nitrate by IC-Dionex4000i/4500	ug/g	103.1	<7.000e-1	2.22e+05	2.200e5	2.210e5	0.90	97.10	6.880e3	n/a
S95T000984		W	Phosphate-IC-Dionex 4000i/4500	ug/g	93.59	<5.000e-1	2.24e+04	2.200e4	2.220e4	1.80	91.40	4.910e3	n/a
S95T000984		W	Sulfate by IC-Dionex4000i/4500	ug/g	100.5	<7.000e-1	1.96e+04	1.940e4	1.950e4	1.03	94.90	6.880e3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000774			% Water by TGA on Perkin Elmer	%	97.92	n/a	47.98	4.887e1	4.842e1	1.84	n/a	n/a	n/a
S95T000774			DSC Exotherm on Perkin Elmer	Joules/g	96.52	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000774			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000775		F	Uranium by Phosphorescence	ug/g	94.42	49.80	2.79e+04	2.700e4	2.740e4	3.28	118.0	1.870e-1	n/a
S95T000775		F	Alpha of Digested Solid	uCi/g	88.18	<3.010e-2	<3.05e-02	4.890e-2	n/a	n/a	104.8	7.000e-2	114.9
S95T000775		F	Americium-241 by GEA	uCi/g	n/a	<7.880e-2	<3.19e-01	<3.18e-1	n/a	n/a	n/a	7.900e-2	
S95T000775		F	Cobalt-60 by GEA	uCi/g	99.53	<1.340e-2	<1.84e-02	<1.57e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000775		F	Cesium-137 by GEA	uCi/g	106.4	<3.040e-2	7.700	7.250e0	7.475e0	6.02	n/a	3.000e-2	1.77
S95T000775		F	Europium-154 by GEA	uCi/g	n/a	<3.590e-2	<4.91e-02	<4.40e-2	n/a	n/a	n/a	3.600e-2	n/a
S95T000775		F	Europium-155 by GEA	uCi/g	n/a	<2.840e-2	<1.18e-01	<1.15e-1	n/a	n/a	n/a	2.800e-2	n/a
S95T000775		F	Silver -ICP-Fusion	ug/g	100.6	1.00e-02	< 50.61	<50.5700	n/a	n/a	72.28	50.60	n/a
S95T000775		F	Aluminium -ICP-Fusion	ug/g	101.0	2.83e-01	2.48e+03	2.340e3	2.410e3	5.46	96.00	253.0	n/a
S95T000775		F	Arsenic -ICP-Fusion	ug/g	105.0	1.40e-01	<2.53e+02	<252.850	n/a	n/a	103.9	253.0	n/a
S95T000775		F	Boron -ICP-Fusion	ug/g	101.6	4.00e-03	<2.53e+02	<252.850	n/a	n/a	96.21	253.0	n/a
S95T000775		F	Barium -ICP-Fusion	ug/g	100.3	1.00e-02	<2.53e+02	<252.850	n/a	n/a	92.77	253.0	n/a
S95T000775		F	Beryllium -ICP-Fusion	ug/g	105.4	-4.00e-3	< 25.30	<25.2850	n/a	n/a	100.0	25.30	n/a
S95T000775		F	Bismuth -ICP-Fusion	ug/g	102.2	-9.380e0	<5.06e+02	<505.700	n/a	n/a	45.50	506.0	n/a
S95T000775		F	Calcium -ICP-Fusion	ug/g	105.0	8.86e-01	1.04e+03	9.909e2	1.020e3	5.08	103.7	506.0	n/a
S95T000775		F	Cadmium -ICP-Fusion	ug/g	105.0	1.00e-02	< 50.61	<50.5700	n/a	n/a	101.0	50.60	n/a
S95T000775		F	Cerium -ICP-Fusion	ug/g	102.4	6.70e-02	<5.06e+02	<505.700	n/a	n/a	97.44	506.0	n/a
S95T000775		F	Cobalt -ICP-Fusion	ug/g	104.4	7.00e-03	<1.01e+02	<101.140	n/a	n/a	99.92	101.0	n/a
S95T000775		F	Chromium -ICP-Fusion	ug/g	104.6	1.50e-02	1.68e+02	1.605e2	1.642e2	4.55	101.2	50.60	n/a
S95T000775		F	Copper -ICP-Fusion	ug/g	102.0	6.50e-02	< 50.61	<50.5700	n/a	n/a	96.50	50.60	n/a
S95T000775		F	Iron -ICP-Fusion	ug/g	104.3	1.64e-01	1.98e+04	1.860e4	1.920e4	5.95	107.3	253.0	n/a
S95T000775		F	Lanthanum -ICP-Fusion	ug/g	102.0	8.00e-03	<2.53e+02	<252.850	n/a	n/a	96.02	253.0	n/a
S95T000775		F	Lithium -ICP-Fusion	ug/g	99.95	7.00e-03	< 50.61	<50.5700	n/a	n/a	92.39	50.60	n/a
S95T000775		F	Magnesium -ICP-Fusion	ug/g	100.6	3.60e-01	<5.06e+02	<505.700	n/a	n/a	101.3	506.0	n/a
S95T000775		F	Manganese -ICP-Fusion	ug/g	102.3	3.30e-02	1.01e+02	9.703e1	9.879e1	3.57	96.11	50.60	n/a
S95T000775		F	Molybdenum -ICP-Fusion	ug/g	104.4	-1.30e-2	<2.53e+02	<252.850	n/a	n/a	102.1	253.0	n/a
S95T000775		F	Sodium -ICP-Fusion	ug/g	99.04	4.841	9.41e+04	8.800e4	9.100e4	6.63	62.26	506.0	n/a
S95T000775		F	Neodymium -ICP-Fusion	ug/g	104.3	5.00e-02	<5.06e+02	<505.700	n/a	n/a	98.44	506.0	n/a
S95T000775		F	Nickel -ICP-Fusion	ug/g	104.4	8.345	5.23e+03	4.900e3	5.070e3	6.50	101.9	101.0	n/a
S95T000775		F	Phosphorus -ICP-Fusion	ug/g	104.8	-3.00e-2	1.67e+04	1.570e4	1.620e4	6.19	101.8	1.010e3	n/a
S95T000775		F	Lead -ICP-Fusion	ug/g	104.9	4.55e-01	6.88e+02	7.455e2	7.168e2	8.00	104.7	506.0	n/a
S95T000775		F	Sulfur -ICP-Fusion	ug/g	103.0	1.02e-01	5.57e+03	5.250e3	5.410e3	6.01	101.9	253.0	n/a
S95T000775		F	Antimony -ICP-Fusion	ug/g	98.15	-3.50e-2	<1.01e+03	<1011.40	n/a	n/a	95.68	1.010e3	n/a
S95T000775		F	Selenium -ICP-Fusion	ug/g	104.9	-2.520e0	<5.06e+02	<505.700	n/a	n/a	81.84	506.0	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000775		F	Silicon -ICP-Fusion	ug/g	96.64	3.29e-01	4.22e+04	4.030e4	4.130e4	4.68	119.1	253.0	n/a
S95T000775		F	Samarium -ICP-Fusion	ug/g	102.2	1.25e-01	<5.06e+02	<505.700	n/a	n/a	95.91	506.0	n/a
S95T000775		F	Strontium -ICP-Fusion	ug/g	99.90	-2.00e-3	6.80e+02	6.394e2	6.596e2	6.12	93.76	50.60	n/a
S95T000775		F	Titanium-ICP-Fusion	ug/g	99.53	1.70e-02	< 50.61	<50.5700	n/a	n/a	96.11	50.60	n/a
S95T000775		F	Thallium -ICP-Fusion	ug/g	101.3	6.60e-02	<1.01e+03	<1011.40	n/a	n/a	97.66	1.010e3	n/a
S95T000775		F	Uranium -ICP-Fusion	ug/g	100.8	-3.270e0	2.28e+04	2.140e4	2.210e4	5.90	93.63	2.020e3	n/a
S95T000775		F	Vanadium -ICP-Fusion	ug/g	99.52	4.40e-02	<2.53e+02	<252.850	n/a	n/a	96.55	253.0	n/a
S95T000775		F	Zinc -ICP-Fusion	ug/g	104.5	6.40e-02	2.42e+02	1.600e2	2.008e2	40.6	99.40	50.60	n/a
S95T000775		F	Zirconium -ICP-Fusion	ug/g	101.8	2.40e-02	< 50.61	<50.5700	n/a	n/a	97.04	50.60	n/a
S95T000983		W	Chloride-IC-Dionex 4000i/4500	ug/g	104.3	<8.000e-2	1.51e+03	1.420e3	1.460e3	6.14	n/a	782.0	n/a
S95T000983		W	Fluoride-IC-Dionex 4000i/4500	ug/g	104.6	<6.000e-2	1.04e+03	1.060e3	1.050e3	1.90	n/a	586.0	n/a
S95T000983		W	Nitrite-IC - Dionex 4000i/4500	ug/g	101.7	<5.000e-1	1.49e+04	1.500e4	1.500e4	0.67	n/a	4.880e3	n/a
S95T000983		W	Nitrate by IC-Dionex4000i/4500	ug/g	105.0	<7.000e-1	2.14e+05	2.170e5	2.160e5	1.39	n/a	6.840e3	n/a
S95T000983		W	Phosphate-IC-Dionex 4000i/4500	ug/g	96.15	<5.000e-1	2.18e+04	2.180e4	2.180e4	0.00	n/a	4.880e3	n/a
S95T000983		W	Sulfate by IC-Dionex4000i/4500	ug/g	101.7	<7.000e-1	1.92e+04	1.920e4	1.920e4	0.00	n/a	6.840e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 84
SEGMENT #: n/a

SEGMENT PORTION: Core Composite

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001325			TOC by Persulfate/Coulometry	ug/g	93.00	25.10	4.27e+02	3.320e2	3.795e2	25.0	n/a	80.00	n/a
S95T001325			% Water by TGA using Mettler	%	100.2	n/a	51.23	5.064e1	5.094e1	1.16	n/a	n/a	n/a
S95T001325			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
S95T001325			DSC Exotherm using Mettler	Joules/g	99.12	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T001325			Bulk Density of Sample	g/mL	n/a	n/a	1.460	n/a	n/a	n/a	n/a	5.000e-1	n/a
S95T001326	W		Bromide by Ion Chromatograph	ug/g	101.6	<6.320e-1	<6.55e+03	<6.64e3	n/a	n/a	n/a	6.550e3	n/a
S95T001326	W		Chloride-IC-Dionex 4000i/4500	ug/g	102.9	<8.300e-2	1.10e+03	1.260e3	1.180e3	13.6	n/a	860.0	n/a
S95T001326	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.6	<6.200e-2	<6.42e+02	<6.52e2	n/a	n/a	n/a	642.0	n/a
S95T001326	W		Nitrite-IC - Dionex 4000i/4500	ug/g	101.9	<5.470e-1	1.81e+04	1.800e4	1.800e4	0.55	n/a	5.670e3	n/a
S95T001326	W		Nitrate by IC-Dionex4000i/4500	ug/g	102.4	<6.990e-1	2.25e+05	2.180e5	2.220e5	3.16	n/a	7.240e3	n/a
S95T001326	W		Phosphate-IC-Dionex 4000i/4500	ug/g	102.6	<5.960e-1	2.66e+04	2.650e4	2.660e4	0.38	n/a	6.180e3	n/a
S95T001326	W		Sulfate by IC-Dionex4000i/4500	ug/g	103.0	<6.780e-1	1.95e+04	1.910e4	1.930e4	2.07	n/a	7.030e3	n/a
S95T001329	F		Uranium by Phosphorescence	ug/g	94.08	4.40e-01	1.73e+04	1.740e4	1.740e4	0.58	n/a	1.670e-1	n/a
S95T001329	F		Alpha of Digested Solid	uCi/g	107.9	<2.830e-1	<3.60e-01	<2.76e-1	n/a	n/a	n/a	5.290e-1	500.0
S95T001329	F		Beta of Solid Sample	uCi/g	112.4	<8.600e-1	3.80e+02	3.650e2	3.725e2	4.03	n/a	1.770	1.3
S95T001329	F		Americium-241 by GEA	uCi/g	n/a	<7.440e-2	<3.29e-01	<3.34e-1	n/a	n/a	n/a	7.400e-2	n/a
S95T001329	F		Cobalt-60 by GEA	uCi/g	98.54	<1.050e-2	<1.30e-02	<1.37e-2	n/a	n/a	n/a	1.100e-2	n/a
S95T001329	F		Cesium-137 by GEA	uCi/g	96.12	<2.050e-2	14.10	1.440e1	1.425e1	2.11	n/a	2.100e-2	1.23
S95T001329	F		Europium-154 by GEA	uCi/g	n/a	<3.250e-2	<5.05e-02	<4.48e-2	n/a	n/a	n/a	3.300e-2	n/a
S95T001329	F		Europium-155 by GEA	uCi/g	n/a	<2.390e-2	<1.18e-01	<1.17e-1	n/a	n/a	n/a	2.400e-2	n/a
S95T001329	F		Silver -ICP-Fusion	ug/g	99.00	-1.00e-3	<2.30e+02	<224.907	n/a	n/a	44.14	230.0	n/a
S95T001329	F		Aluminium -ICP-Fusion	ug/g	98.40	1.10e-02	1.60e+03	1.510e3	1.550e3	5.49	96.27	1.150e3	n/a
S95T001329	F		Arsenic -ICP-Fusion	ug/g	102.0	-1.20e-2	<1.15e+03	<1124.53	n/a	n/a	104.9	1.150e3	n/a
S95T001329	F		Boron -ICP-Fusion	ug/g	98.60	2.00e-03	<1.15e+03	<1124.53	n/a	n/a	96.23	1.150e3	n/a
S95T001329	F		Barium -ICP-Fusion	ug/g	97.20	5.00e-04	<1.15e+03	<1124.53	n/a	n/a	92.16	1.150e3	n/a
S95T001329	F		Beryllium -ICP-Fusion	ug/g	102.8	2.00e-04	<1.15e+02	<112.453	n/a	n/a	102.0	115.0	n/a
S95T001329	F		Bismuth -ICP-Fusion	ug/g	99.20	-2.90e-2	<2.30e+03	<2249.07	n/a	n/a	97.21	2.300e3	n/a
S95T001329	F		Calcium -ICP-Fusion	ug/g	102.8	-2.00e-3	2.65e+03	2.270e3	2.460e3	15.6	106.3	2.300e3	n/a
S95T001329	F		Cadmium -ICP-Fusion	ug/g	102.0	0.00e+00	<2.30e+02	<224.907	n/a	n/a	105.7	230.0	n/a
S95T001329	F		Cerium -ICP-Fusion	ug/g	99.20	5.00e-03	<2.30e+03	<2249.07	n/a	n/a	96.25	2.300e3	n/a
S95T001329	F		Cobalt -ICP-Fusion	ug/g	102.4	2.00e-03	<4.61e+02	<449.814	n/a	n/a	104.5	461.0	n/a
S95T001329	F		Chromium -ICP-Fusion	ug/g	102.0	1.00e-03	<2.30e+02	<224.907	n/a	n/a	104.4	230.0	n/a
S95T001329	F		Copper -ICP-Fusion	ug/g	99.20	1.00e-03	<2.30e+02	<224.907	n/a	n/a	95.23	230.0	n/a
S95T001329	F		Iron -ICP-Fusion	ug/g	102.0	1.00e-03	2.00e+04	2.070e4	2.040e4	3.38	104.5	1.150e3	n/a
S95T001329	F		Lanthanum -ICP-Fusion	ug/g	99.20	2.00e-03	<1.15e+03	<1124.53	n/a	n/a	95.70	1.150e3	n/a
S95T001329	F		Lithium -ICP-Fusion	ug/g	97.20	2.00e-03	<2.30e+02	<224.907	n/a	n/a	89.54	230.0	n/a
S95T001329	F		Magnesium -ICP-Fusion	ug/g	99.00	4.00e-03	<2.30e+03	<2249.07	n/a	n/a	98.35	2.300e3	n/a
S95T001329	F		Manganese -ICP-Fusion	ug/g	98.60	1.00e-03	<2.30e+02	<224.907	n/a	n/a	98.23	230.0	n/a
S95T001329	F		Molybdenum -ICP-Fusion	ug/g	101.6	1.00e-03	<1.15e+03	<1124.53	n/a	n/a	104.2	1.150e3	n/a
S95T001329	F		Sodium -ICP-Fusion	ug/g	97.20	1.05e-01	1.13e+05	1.130e5	1.130e5	0.16	0.00e+00	2.300e3	n/a
S95T001329	F		Neodymium -ICP-Fusion	ug/g	101.6	3.00e-03	<2.30e+03	<2249.07	n/a	n/a	97.56	2.300e3	n/a
S95T001329	F		Nickel -ICP-Fusion	ug/g	101.2	9.60e-02	3.93e+03	3.060e3	3.490e3	24.8	119.9	461.0	n/a
S95T001329	F		Phosphorus -ICP-Fusion	ug/g	105.8	4.00e-03	2.20e+04	2.250e4	2.220e4	2.46	109.5	4.610e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001329		F	Lead -ICP-Fusion	ug/g	102.0	9.00e-03	<2.30e+03	<2249.07	n/a	n/a	108.5	2.300e3	n/a
S95T001329		F	Sulfur -ICP-Fusion	ug/g	101.2	3.00e-04	6.48e+03	6.780e3	6.630e3	4.56	103.2	1.150e3	n/a
S95T001329		F	Antimony -ICP-Fusion	ug/g	96.20	3.00e-03	<4.61e+03	<4498.14	n/a	n/a	98.10	4.610e3	n/a
S95T001329		F	Selenium -ICP-Fusion	ug/g	100.4	5.00e-02	<2.30e+03	<2249.07	n/a	n/a	107.9	2.300e3	n/a
S95T001329		F	Silicon -ICP-Fusion	ug/g	99.80	4.40e-02	1.85e+03	<1124.53	n/a	n/a	96.55	1.150e3	n/a
S95T001329		F	Samarium -ICP-Fusion	ug/g	99.00	2.00e-02	<2.30e+03	<2249.07	n/a	n/a	98.16	2.300e3	n/a
S95T001329		F	Strontium -ICP-Fusion	ug/g	97.40	4.00e-04	5.69e+02	5.703e2	5.695e2	0.28	93.82	230.0	n/a
S95T001329		F	Titanium-ICP-Fusion	ug/g	97.00	0.00e+00	<2.30e+02	<224.907	n/a	n/a	96.16	230.0	n/a
S95T001329		F	Thallium -ICP-Fusion	ug/g	98.80	-1.30e-2	<4.61e+03	<4498.14	n/a	n/a	103.0	4.610e3	n/a
S95T001329		F	Uranium -ICP-Fusion	ug/g	98.60	-7.00e-3	1.54e+04	1.720e4	1.630e4	10.8	96.87	9.210e3	n/a
S95T001329		F	Vanadium -ICP-Fusion	ug/g	101.6	4.00e-03	<1.15e+03	<1124.53	n/a	n/a	102.7	1.150e3	n/a
S95T001329		F	Zinc -ICP-Fusion	ug/g	101.8	-2.00e-4	<2.30e+02	<224.907	n/a	n/a	104.1	230.0	n/a
S95T001329		F	Zirconium -ICP-Fusion	ug/g	99.20	3.00e-03	<2.30e+02	<224.907	n/a	n/a	97.90	230.0	n/a
S95T001329		F	Strontium-89/90 High Level	uCi/g	107.3	4.930	1.80e+02	1.810e2	1.805e2	0.55	n/a	2.470	3.58E+00
S95T001445		I	Silver -ICP-H20 Dig/Acid	ug/g	98.47	3.00e-04	< 5.130	<5.2040	n/a	n/a	89.04	5.130	n/a
S95T001445		I	Aluminium -ICP-H20 Dig/Acid	ug/g	101.2	8.00e-03	2.93e+02	3.098e2	3.015e2	5.50	99.59	25.70	n/a
S95T001445		I	Arsenic -ICP-H20 Dig/Acid	ug/g	104.1	4.00e-03	< 25.65	<26.0200	n/a	n/a	107.1	25.70	n/a
S95T001445		I	Boron -ICP-H20 Dig/Acid	ug/g	102.8	4.00e-03	29.38	3.029e1	2.983e1	3.05	101.7	25.70	n/a
S95T001445		I	Barium -ICP-H20 Dig/Acid	ug/g	101.7	0.00e+00	< 25.65	<26.0200	n/a	n/a	99.15	25.70	n/a
S95T001445		I	Beryllium -ICP-H20 Dig/Acid	ug/g	104.8	0.00e+00	< 2.565	<2.6020	n/a	n/a	104.6	2.560	n/a
S95T001445		I	Bismuth -ICP-H20 Dig/Acid	ug/g	101.7	-1.90e-2	< 51.30	5.310e1	n/a	n/a	106.9	51.30	n/a
S95T001445		I	Calcium -ICP-H20 Dig/Acid	ug/g	103.2	9.00e-03	67.88	7.509e1	7.148e1	10.1	103.8	51.30	n/a
S95T001445		I	Cadmium -ICP-H20 Dig/Acid	ug/g	103.7	1.00e-03	< 5.130	<5.2040	n/a	n/a	104.7	5.130	n/a
S95T001445		I	Cerium -ICP-H20 Dig/Acid	ug/g	103.0	3.00e-04	< 51.30	<52.0400	n/a	n/a	101.7	51.30	n/a
S95T001445		I	Cobalt -ICP-H20 Dig/Acid	ug/g	103.2	-2.00e-4	< 10.26	<10.4080	n/a	n/a	103.4	10.30	n/a
S95T001445		I	Chromium -ICP-H20 Dig/Acid	ug/g	104.0	-1.00e-3	65.07	6.885e1	6.696e1	5.64	105.0	5.130	n/a
S95T001445		I	Copper -ICP-H20 Dig/Acid	ug/g	104.3	4.00e-04	< 5.130	<5.2040	n/a	n/a	102.7	5.130	n/a
S95T001445		I	Iron -ICP-H20 Dig/Acid	ug/g	103.9	3.00e-04	1.86e+03	2.480e3	2.170e3	28.6	109.6	25.70	n/a
S95T001445		I	Potassium -ICP-H20 Dig/Acid	ug/g	101.6	-2.43e-1	<1.54e+02	<156.120	n/a	n/a	103.2	154.0	n/a
S95T001445		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	102.9	2.00e-04	< 25.65	<26.0200	n/a	n/a	101.4	25.70	n/a
S95T001445		I	Lithium -ICP-H20 Dig/Acid	ug/g	101.5	1.00e-03	9.645	9.987e0	9.816e0	3.49	97.96	5.130	n/a
S95T001445		I	Magnesium -ICP-H20 Dig/Acid	ug/g	100.4	1.30e-02	< 51.30	<52.0400	n/a	n/a	107.0	51.30	n/a
S95T001445		I	Manganese -ICP-H20 Dig/Acid	ug/g	101.7	1.00e-04	9.697	1.282e1	1.126e1	27.7	99.55	5.130	n/a
S95T001445		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	104.0	-2.00e-3	< 25.65	<26.0200	n/a	n/a	105.0	25.70	n/a
S95T001445		I	Sodium -ICP-H20 Dig/Acid	ug/g	100.9	4.98e-01	1.02e+05	1.030e5	1.030e5	1.06	97.47	51.30	n/a
S95T001445		I	Neodymium -ICP-H20 Dig/Acid	ug/g	105.6	-1.00e-3	< 51.30	<52.0400	n/a	n/a	104.1	51.30	n/a
S95T001445		I	Nickel -ICP-H20 Dig/Acid	ug/g	102.9	-3.00e-3	< 10.26	<10.4080	n/a	n/a	105.1	10.30	n/a
S95T001445		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	102.8	-9.00e-3	8.47e+03	8.750e3	8.610e3	3.23	144.6	103.0	n/a
S95T001445		I	Lead -ICP-H20 Dig/Acid	ug/g	103.0	6.00e-03	< 51.30	5.516e1	n/a	n/a	111.6	51.30	n/a
S95T001445		I	Sulfur -ICP-H20 Dig/Acid	ug/g	101.3	-9.00e-3	6.76e+03	6.840e3	6.800e3	1.13	128.1	25.70	n/a
S95T001445		I	Antimony -ICP-H20 Dig/Acid	ug/g	97.21	-5.00e-4	<1.03e+02	<104.080	n/a	n/a	96.99	103.0	n/a
S95T001445		I	Selenium -ICP-H20 Dig/Acid	ug/g	101.5	1.00e-02	< 51.30	<52.0400	n/a	n/a	86.39	51.30	n/a
S95T001445		I	Silicon -ICP-H20 Dig/Acid	ug/g	98.41	8.50e-02	78.49	9.120e1	8.484e1	15.0	100.2	25.70	n/a
S95T001445		I	Samarium -ICP-H20 Dig/Acid	ug/g	103.1	6.00e-03	< 51.30	<52.0400	n/a	n/a	101.6	51.30	n/a
S95T001445		I	Strontium -ICP-H20 Dig/Acid	ug/g	100.7	3.00e-04	21.70	2.840e1	2.505e1	26.8	99.04	5.130	n/a
S95T001445		I	Titanium-ICP-H20 Dig/Acid	ug/g	99.89	0.00e+00	< 5.130	<5.2040	n/a	n/a	99.90	5.130	n/a
S95T001445		I	Thallium -ICP-H20 Dig/Acid	ug/g	100.4	3.00e-03	<1.03e+02	<104.080	n/a	n/a	99.82	103.0	n/a
S95T001445		I	Uranium -ICP-H20 Dig/Acid	ug/g	102.3	1.50e-02	4.47e+02	5.676e2	5.071e2	23.9	100.8	205.0	n/a
S95T001445		I	Vanadium -ICP-H20 Dig/Acid	ug/g	103.1	1.00e-03	< 25.65	<26.0200	n/a	n/a	103.3	25.70	n/a
S95T001445		I	Zinc -ICP-H20 Dig/Acid	ug/g	103.3	3.00e-04	22.55	2.632e1	2.443e1	15.4	104.5	5.130	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001445		1	Zirconium -ICP-H2O Dig/Acid	ug/g	102.0	3.00e-04	<	5.130	<5.2040	n/a	n/a	101.0	5.130	n/a

WHC-SD-WM-DP-154, REV. 0

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 85
SEGMENT #: 1

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000780			% Water by TGA using Mettler	%	99.97	n/a	52.56	5.278e1	5.267e1	0.42	n/a	n/a	n/a
S95T000780			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000780			DSC Exotherm using Mettler	Joules/g	93.50	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000781		F	Uranium by Phosphorescence	ug/g	93.59	46.90	9.64e+03	8.320e3	8.980e3	14.7	70.70	1.800e-1	n/a
S95T000781		F	Alpha of Digested Solid	uCi/g	101.4	<3.500e-2	<6.38e-02	<5.08e-2	n/a	n/a	89.60	7.300e-2	231.9
S95T000781		F	Americium-241 by GEA	uCi/g	n/a	<8.740e-2	<3.67e-01	<3.68e-1	n/a	n/a	n/a	8.700e-2	n/a
S95T000781		F	Cobalt-60 by GEA	uCi/g	98.12	<1.690e-2	<2.04e-02	<1.90e-2	n/a	n/a	n/a	1.700e-2	n/a
S95T000781		F	Cesium-137 by GEA	uCi/g	103.0	<3.640e-2	9.440	9.360e0	9.400e0	0.96	n/a	3.600e-2	1.76
S95T000781		F	Europium-154 by GEA	uCi/g	n/a	<4.310e-2	<7.06e-02	<7.30e-2	n/a	n/a	n/a	4.300e-2	n/a
S95T000781		F	Europium-155 by GEA	uCi/g	n/a	<3.540e-2	<1.66e-01	<1.69E-1	n/a	n/a	n/a	3.500e-2	n/a
S95T000781		F	Silver -ICP-Fusion	ug/g	98.75	-1.00e-3	< 48.68	<47.7900	n/a	n/a	60.10	48.70	n/a
S95T000781		F	Aluminium -ICP-Fusion	ug/g	99.94	2.26e-01	7.40e+03	7.360e3	7.380e3	0.52	95.59	243.0	n/a
S95T000781		F	Arsenic -ICP-Fusion	ug/g	102.6	1.50e-01	<2.43e+02	<238.950	n/a	n/a	102.0	243.0	n/a
S95T000781		F	Boron -ICP-Fusion	ug/g	99.65	-4.00e-2	<2.43e+02	<238.950	n/a	n/a	93.39	243.0	n/a
S95T000781		F	Barium -ICP-Fusion	ug/g	98.58	1.50e-02	<2.43e+02	<238.950	n/a	n/a	90.89	243.0	n/a
S95T000781		F	Beryllium -ICP-Fusion	ug/g	104.2	-4.00e-3	< 24.34	<23.8950	n/a	n/a	95.62	24.30	n/a
S95T000781		F	Bismuth -ICP-Fusion	ug/g	100.5	-8.350e0	<4.87e+02	<477.900	n/a	n/a	15.11	487.0	n/a
S95T000781		F	Calcium -ICP-Fusion	ug/g	102.6	6.53e-01	4.70e+03	4.920e3	4.810e3	4.64	100.3	487.0	n/a
S95T000781		F	Cadmium -ICP-Fusion	ug/g	102.8	-2.00e-3	< 48.68	<47.7900	n/a	n/a	96.88	48.70	n/a
S95T000781		F	Cerium -ICP-Fusion	ug/g	101.1	-3.90e-2	<4.87e+02	<477.900	n/a	n/a	95.24	487.0	n/a
S95T000781		F	Cobalt -ICP-Fusion	ug/g	102.2	2.00e-02	< 97.36	<95.5800	n/a	n/a	96.20	97.40	n/a
S95T000781		F	Chromium -ICP-Fusion	ug/g	102.3	8.00e-03	86.22	8.738e1	8.680e1	1.34	98.69	48.70	n/a
S95T000781		F	Copper -ICP-Fusion	ug/g	101.0	2.40e-02	< 48.68	<47.7900	n/a	n/a	93.60	48.70	n/a
S95T000781		F	Iron -ICP-Fusion	ug/g	102.6	7.90e-02	2.24e+04	2.400e4	2.320e4	6.77	104.9	243.0	n/a
S95T000781		F	Lanthanum -ICP-Fusion	ug/g	101.1	-1.30e-2	<2.43e+02	<238.950	n/a	n/a	93.13	243.0	n/a
S95T000781		F	Lithium -ICP-Fusion	ug/g	99.36	4.00e-03	< 48.68	<47.7900	n/a	n/a	91.50	48.70	n/a
S95T000781		F	Magnesium -ICP-Fusion	ug/g	99.53	3.35e-01	1.05e+03	1.040e3	1.040e3	0.12	92.30	487.0	n/a
S95T000781		F	Manganese -ICP-Fusion	ug/g	99.73	3.30e-02	1.80e+02	1.916e2	1.857e2	6.37	95.52	48.70	n/a
S95T000781		F	Molybdenum -ICP-Fusion	ug/g	102.3	-1.30e-2	<2.43e+02	<238.950	n/a	n/a	97.78	243.0	n/a
S95T000781		F	Sodium -ICP-Fusion	ug/g	98.05	4.044	1.01e+05	1.040e5	1.020e5	3.08	110.6	487.0	n/a
S95T000781		F	Neodymium -ICP-Fusion	ug/g	103.6	3.40e-02	<4.87e+02	<477.900	n/a	n/a	95.97	487.0	n/a
S95T000781		F	Nickel -ICP-Fusion	ug/g	101.2	7.827	5.35e+03	5.820e3	5.590e3	8.29	98.93	97.40	n/a
S95T000781		F	Phosphorus -ICP-Fusion	ug/g	103.5	1.01e-01	1.54e+04	1.570e4	1.560e4	1.46	103.1	974.0	n/a
S95T000781		F	Lead -ICP-Fusion	ug/g	102.0	4.79e-01	5.00e+02	5.841e2	5.419e2	15.6	97.74	487.0	n/a
S95T000781		F	Sulfur -ICP-Fusion	ug/g	101.0	1.67e-01	5.92e+03	6.030e3	5.980e3	1.78	100.4	243.0	n/a
S95T000781		F	Antimony -ICP-Fusion	ug/g	96.73	2.20e-02	<9.74e+02	<955.800	n/a	n/a	94.42	974.0	n/a
S95T000781		F	Selenium -ICP-Fusion	ug/g	102.9	-2.200e0	<4.87e+02	<477.900	n/a	n/a	73.55	487.0	n/a
S95T000781		F	Silicon -ICP-Fusion	ug/g	94.52	3.55e-01	8.29e+02	8.796e2	8.544e2	5.89	94.49	243.0	n/a
S95T000781		F	Samarium -ICP-Fusion	ug/g	101.5	1.09e-01	<4.87e+02	<477.900	n/a	n/a	93.18	487.0	n/a
S95T000781		F	Strontium -ICP-Fusion	ug/g	99.15	-2.00e-3	5.77e+02	6.121e2	5.944e2	5.96	102.9	48.70	n/a
S95T000781		F	Titanium-ICP-Fusion	ug/g	98.64	2.10e-02	1.23e+02	1.261e2	1.247e2	2.18	91.76	48.70	n/a
S95T000781		F	Thallium -ICP-Fusion	ug/g	100.6	4.00e-02	<9.74e+02	<955.800	n/a	n/a	93.01	974.0	n/a
S95T000781		F	Uranium -ICP-Fusion	ug/g	100.2	-3.020e0	6.76e+03	5.930e3	6.340e3	12.9	93.33	1.950e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000781		F	Vanadium -ICP-Fusion	ug/g	97.88	3.30e-02	<2.43e+02	<238.950	n/a	n/a	92.56	243.0	n/a
S95T000781		F	Zinc -ICP-Fusion	ug/g	102.1	1.54e-01	1.44e+02	1.250e2	1.345e2	14.1	97.35	48.70	n/a
S95T000781		F	Zirconium -ICP-Fusion	ug/g	100.4	4.20e-02	< 48.68	<47.7900	n/a	n/a	93.36	48.70	n/a
S95T000994		W	Chloride-IC-Dionex 4000i/4500	ug/g	102.5	<8.000e-2	1.38e+03	1.410e3	1.400e3	2.15	n/a	805.0	n/a
S95T000994		W	Fluoride-IC-Dionex 4000i/4500	ug/g	98.47	<6.000e-2	<6.04e+02	<5.80e2	n/a	n/a	n/a	604.0	n/a
S95T000994		W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.9	<5.000e-1	2.12e+04	2.150e4	2.140e4	1.41	n/a	5.030e3	n/a
S95T000994		W	Nitrate by IC-Dionex4000i/4500	ug/g	103.1	<7.000e-1	2.01e+05	1.980e5	2.000e5	1.50	n/a	7.050e3	n/a
S95T000994		W	Phosphate-IC-Dionex 4000i/4500	ug/g	93.59	<5.000e-1	2.88e+04	2.830e4	2.860e4	1.75	n/a	5.030e3	n/a
S95T000994		W	Sulfate by IC-Dionex4000i/4500	ug/g	100.5	<7.000e-1	1.88e+04	1.850e4	1.860e4	1.61	n/a	7.050e3	n/a

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000783			% Water by TGA on Perkin Elmer	%	96.99	n/a	67.45	5.773e1	6.259e1	15.5	n/a	n/a	n/a
S95T000783			% Water by TGA using Mettler	%	99.27	n/a	57.53	n/a	n/a	n/a	n/a	n/a	n/a
S95T000783			Specific Gravity	Sp.G.	95.06	n/a	1.265	1.272e0	1.268e0	0.55	n/a	1.000e-3	n/a
S95T000783			DSC Exotherm on Perkin Elmer	Joules/g	104.4	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000783			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000783			Alpha in Liquid Samples	uCi/mL	84.42	<4.110e-4	8.09e-04	4.270e-4	6.180e-4	61.8	92.09	4.220e-4	6.04E+01
S95T000784		D	Uranium by Phosphorescence	ug/mL	104.9	5.240	1.11e+03	1.070e3	1.090e3	3.67	147.0	4.000e-3	n/a
S95T000784		D	Americium-241 by GEA	uCi/mL	n/a	<1.720e-3	<1.07e-01	<1.06e-1	n/a	n/a	n/a	2.000e-3	n/a
S95T000784		D	Cobalt-60 by GEA	uCi/mL	99.53	<2.680e-3	<3.75e-03	<4.17e-3	n/a	n/a	n/a	3.000e-3	n/a
S95T000784		D	Cesium-137 by GEA	uCi/mL	106.0	<6.080e-3	12.70	1.260e1	1.265e1	0.79	n/a	6.000e-3	0.68
S95T000784		D	Europium-154 by GEA	uCi/mL	n/a	<9.930e-3	<9.93e-03	<1.07e-2	n/a	n/a	n/a	1.000e-2	n/a
S95T000784		D	Europium-155 by GEA	uCi/mL	n/a	<7.780e-3	<4.43e-02	<4.37e-2	n/a	n/a	n/a	8.000e-3	n/a
S95T000784		D	Silver-ICP-Acid Dil.	ug/mL	99.77	2.00e-03	< 4.010	<4.0100	n/a	n/a	84.79	4.010	n/a
S95T000784		D	Aluminium-ICP-Acid Dil.	ug/mL	101.3	2.00e-03	< 20.05	<20.0500	n/a	n/a	99.55	20.10	n/a
S95T000784		D	Arsenic-ICP-Acid Dil.	ug/mL	104.1	-1.00e-2	< 20.05	<20.0500	n/a	n/a	102.7	20.10	n/a
S95T000784		D	Boron-ICP-Acid Dil.	ug/mL	101.3	1.40e-02	30.98	3.261e1	3.180e1	5.12	107.7	20.10	n/a
S95T000784		D	Barium-ICP-Acid Dil.	ug/mL	101.0	1.00e-04	< 20.05	<20.0500	n/a	n/a	98.15	20.10	n/a
S95T000784		D	Beryllium-ICP-Acid Dil.	ug/mL	105.1	3.00e-04	< 2.005	<2.0050	n/a	n/a	101.8	2.000	n/a
S95T000784		D	Bismuth-ICP-Acid Dil.	ug/mL	103.8	6.10e-02	< 40.10	<40.1000	n/a	n/a	104.1	40.10	n/a
S95T000784		D	Calcium-ICP-Acid Dil.	ug/mL	101.8	-5.00e-3	< 40.10	<40.1000	n/a	n/a	98.46	40.10	n/a
S95T000784		D	Cadmium-ICP-Acid Dil.	ug/mL	103.0	-1.00e-3	< 4.010	<4.0100	n/a	n/a	99.54	4.010	n/a
S95T000784		D	Cerium-ICP-Acid Dil.	ug/mL	102.2	0.00e+00	< 40.10	<40.1000	n/a	n/a	100.6	40.10	n/a
S95T000784		D	Cobalt-ICP-Acid Dil.	ug/mL	103.7	-3.00e-4	< 8.020	<8.0200	n/a	n/a	101.2	8.020	n/a
S95T000784		D	Chromium-ICP-Acid Dil.	ug/mL	103.2	0.00e+00	1.10e+02	1.077e2	1.087e2	1.73	127.0	4.010	n/a
S95T000784		D	Copper-ICP-Acid Dil.	ug/mL	103.3	0.00e+00	< 4.010	<4.0100	n/a	n/a	100.7	4.010	n/a
S95T000784		D	Iron-ICP-Acid Dil.	ug/mL	102.8	-2.00e-4	< 20.05	<20.0500	n/a	n/a	102.2	20.10	n/a
S95T000784		D	Potassium-ICP-Acid Dil.	ug/mL	96.88	-1.38e-1	1.85e+02	2.731e2	2.290e2	38.5	141.1	120.0	n/a
S95T000784		D	Lanthanum-ICP-Acid Dil.	ug/mL	101.6	-1.00e-4	< 20.05	<20.0500	n/a	n/a	100.3	20.10	n/a
S95T000784		D	Lithium-ICP-Acid Dil.	ug/mL	101.8	-5.00e-4	7.735	7.698e0	7.716e0	0.47	101.9	4.010	n/a
S95T000784		D	Magnesium-ICP-Acid Dil.	ug/mL	101.3	-5.00e-3	< 40.10	<40.1000	n/a	n/a	95.48	40.10	n/a
S95T000784		D	Manganese-ICP-Acid Dil.	ug/mL	101.0	1.00e-04	< 4.010	<4.0100	n/a	n/a	96.67	4.010	n/a
S95T000784		D	Molybdenum-ICP-Acid Dil.	ug/mL	103.2	2.00e-03	< 20.05	<20.0500	n/a	n/a	106.4	20.10	n/a
S95T000784		D	Sodium-ICP-Acid Dil.	ug/mL	100.8	-2.00e-3	1.49e+05	1.480e5	1.480e5	0.20	0.00e+00	40.10	n/a
S95T000784		D	Neodymium-ICP-Acid Dil.	ug/mL	104.3	0.00e+00	< 40.10	<40.1000	n/a	n/a	103.1	40.10	n/a
S95T000784		D	Nickel-ICP-Acid Dil.	ug/mL	102.6	-2.00e-3	< 8.020	<8.0200	n/a	n/a	99.17	8.020	n/a
S95T000784		D	Phosphorus-ICP-Acid Dil.	ug/mL	107.9	2.30e-02	7.73e+03	7.620e3	7.680e3	1.40	0.00e+00	80.20	n/a
S95T000784		D	Lead-ICP-Acid Dil.	ug/mL	102.9	-5.00e-3	< 40.10	<40.1000	n/a	n/a	99.64	40.10	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000784	D		Sulfer-ICP-Acid Dil.	ug/mL	103.5	-6.00e-3	1.00e+04	9.920e3	9.960e3	0.88	2.40e+03	20.10	n/a
S95T000784	D		Antimony-ICP-Acid Dil.	ug/mL	97.82	3.00e-04	< 80.20	<80.2000	n/a	n/a	94.38	80.20	n/a
S95T000784	D		Selenium-ICP-Acid Dil.	ug/mL	102.7	2.90e-02	< 40.10	<40.1000	n/a	n/a	98.76	40.10	n/a
S95T000784	D		Silicon-ICP-Acid Dil.	ug/mL	96.55	1.00e-03	< 20.05	<20.0500	n/a	n/a	96.37	20.10	n/a
S95T000784	D		Samarium-ICP-Acid Dil.	ug/mL	102.1	-7.00e-3	< 40.10	<40.1000	n/a	n/a	99.84	40.10	n/a
S95T000784	D		Strontium-ICP-Acid Dil.	ug/mL	100.1	0.00e+00	< 4.010	<4.0100	n/a	n/a	98.70	4.010	n/a
S95T000784	D		Titanium-ICP-Acid Dil.	ug/mL	99.39	-5.00e-4	< 4.010	<4.0100	n/a	n/a	98.09	4.010	n/a
S95T000784	D		Thallium-ICP-Acid Dil.	ug/mL	100.6	-1.40e-2	< 80.20	<80.2000	n/a	n/a	96.11	80.20	n/a
S95T000784	D		Uranium-ICP-Acid Dil.	ug/mL	101.3	-2.70e-2	2.34e+02	2.375e2	2.359e2	1.39	128.7	160.0	n/a
S95T000784	D		Vanadium-ICP-Acid Dil.	ug/mL	101.5	-2.00e-3	< 20.05	<20.0500	n/a	n/a	100.1	20.10	n/a
S95T000784	D		Zinc-ICP-Acid Dil.	ug/mL	104.5	-3.00e-4	< 4.010	<4.0100	n/a	n/a	98.53	4.010	n/a
S95T000784	D		Zirconium-ICP-Acid Dil.	ug/mL	101.0	-2.00e-3	< 4.010	<4.0100	n/a	n/a	98.87	4.010	n/a
S95T000993	V		Bromide by Ion Chromatograph	ug/mL	91.10	<6.040e-1	<7.04e+03	<7.04e3	n/a	n/a	92.60	7.040e3	n/a
S95T000993	V		Chloride-IC-Dionex 4000i/4500	ug/mL	96.46	<8.300e-2	2.26e+03	2.080e3	2.170e3	8.29	94.70	838.0	n/a
S95T000993	V		Fluoride-IC-Dionex 4000i/4500	ug/mL	94.24	<6.000e-2	<6.26e+02	<6.26e2	n/a	n/a	94.70	626.0	n/a
S95T000993	V		Nitrite-IC - Dionex 4000i/4500	ug/mL	93.78	<5.000e-1	3.19e+04	2.960e4	3.080e4	7.48	94.40	5.370e3	n/a
S95T000993	V		Nitrate-IC - Dionex 4000i/4500	ug/mL	94.95	<7.030e-1	3.16e+05	2.910e5	3.040e5	8.24	90.80	6.100e3	n/a
S95T000993	V		Phosphate-IC-Dionex 4000i/4500	ug/mL	91.94	<5.000e-1	2.26e+04	2.180e4	2.220e4	3.60	90.20	7.100e3	n/a
S95T000993	V		Sulfate by IC-Dionex4000i/4500	ug/mL	92.87	<7.000e-1	2.76e+04	2.610e4	2.680e4	5.59	93.40	5.780e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 85
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000789			% Water by TGA using Mettler	%	92.70	n/a	50.65	4.372e1	4.719e1	14.7	n/a	n/a	n/a
S95T000789			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000789			DSC Exotherm using Mettler	Joules/g	101.9	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000790		F	Uranium by Phosphorescence	ug/g	95.02	65.80	7.45e+03	8.120e3	7.780e3	8.61	102.0	3.680e-1	n/a
S95T000790		F	Alpha of Digested Solid	uCi/g	103.0	<1.560e-2	<3.41e-02	<3.45e-2	n/a	n/a	96.10	4.100e-2	500.0
S95T000790		F	Americium-241 by GEA	uCi/g	n/a	<3.020e-2	<1.39e-01	<1.40e-1	n/a	n/a	n/a	3.000e-2	n/a
S95T000790		F	Cobalt-60 by GEA	uCi/g	100.5	<7.130e-3	<9.09e-03	<9.38e-3	n/a	n/a	n/a	7.000e-3	n/a
S95T000790		F	Cesium-137 by GEA	uCi/g	106.8	<1.070e-2	10.00	1.020e1	1.010e1	1.98	n/a	1.100e-2	0.8
S95T000790		F	Europium-154 by GEA	uCi/g	n/a	<2.070e-2	<3.24e-02	<3.44e-2	n/a	n/a	n/a	2.100e-2	n/a
S95T000790		F	Europium-155 by GEA	uCi/g	n/a	<1.350e-2	<5.93e-02	<6.03e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000790		F	Silver -ICP-Fusion	ug/g	99.49	-6.30e-2	< 49.80	<50.2500	n/a	n/a	78.93	49.80	n/a
S95T000790		F	Aluminium -ICP-Fusion	ug/g	100.6	1.53e-01	3.54e+03	3.620e3	3.580e3	2.05	92.90	249.0	n/a
S95T000790		F	Arsenic -ICP-Fusion	ug/g	103.3	4.90e-02	<2.49e+02	<251.250	n/a	n/a	102.6	249.0	n/a
S95T000790		F	Boron -ICP-Fusion	ug/g	100.6	-1.00e-2	<2.49e+02	<251.250	n/a	n/a	93.66	249.0	n/a
S95T000790		F	Barium -ICP-Fusion	ug/g	99.73	1.00e-03	<2.49e+02	<251.250	n/a	n/a	90.11	249.0	n/a
S95T000790		F	Beryllium -ICP-Fusion	ug/g	103.9	-5.00e-3	< 24.90	<25.1250	n/a	n/a	96.83	24.90	n/a
S95T000790		F	Bismuth -ICP-Fusion	ug/g	100.4	-9.040e0	<4.98e+02	<502.500	n/a	n/a	11.59	498.0	n/a
S95T000790		F	Calcium -ICP-Fusion	ug/g	101.7	5.20e-01	4.78e+03	5.060e3	4.920e3	5.72	101.6	498.0	n/a
S95T000790		F	Cadmium -ICP-Fusion	ug/g	102.4	9.00e-03	< 49.80	<50.2500	n/a	n/a	98.53	49.80	n/a
S95T000790		F	Cerium -ICP-Fusion	ug/g	101.8	-5.20e-2	<4.98e+02	<502.500	n/a	n/a	93.95	498.0	n/a
S95T000790		F	Cobalt -ICP-Fusion	ug/g	102.2	-1.70e-2	< 99.50	<100.500	n/a	n/a	98.01	99.50	n/a
S95T000790		F	Chromium -ICP-Fusion	ug/g	102.4	4.00e-03	1.34e+02	1.422e2	1.379e2	6.22	99.01	49.80	n/a
S95T000790		F	Copper -ICP-Fusion	ug/g	101.5	2.70e-02	< 49.80	<50.2500	n/a	n/a	93.18	49.80	n/a
S95T000790		F	Iron -ICP-Fusion	ug/g	102.4	6.70e-02	1.82e+04	1.880e4	1.850e4	3.48	996.3	249.0	n/a
S95T000790		F	Lanthanum -ICP-Fusion	ug/g	101.4	-3.00e-3	<2.49e+02	<251.250	n/a	n/a	92.97	249.0	n/a
S95T000790		F	Lithium -ICP-Fusion	ug/g	100.9	-5.00e-3	< 49.80	<50.2500	n/a	n/a	89.67	49.80	n/a
S95T000790		F	Magnesium -ICP-Fusion	ug/g	100.2	2.93e-01	1.10e+03	1.100e3	1.100e3	0.27	90.25	498.0	n/a
S95T000790		F	Manganese -ICP-Fusion	ug/g	100.0	6.50e-02	1.56e+02	1.692e2	1.628e2	7.81	93.58	49.80	n/a
S95T000790		F	Molybdenum -ICP-Fusion	ug/g	102.3	7.00e-03	<2.49e+02	<251.250	n/a	n/a	99.50	249.0	n/a
S95T000790		F	Sodium -ICP-Fusion	ug/g	99.50	4.705	1.10e+05	1.110e5	1.100e5	0.82	83.23	498.0	n/a
S95T000790		F	Neodymium -ICP-Fusion	ug/g	104.2	-1.90e-2	<4.98e+02	<502.500	n/a	n/a	96.00	498.0	n/a
S95T000790		F	Nickel -ICP-Fusion	ug/g	101.6	29.64	5.21e+03	7.620e3	6.420e3	37.5	98.59	99.50	n/a
S95T000790		F	Phosphorus -ICP-Fusion	ug/g	101.8	1.29e-01	2.56e+04	2.660e4	2.610e4	3.98	120.1	995.0	n/a
S95T000790		F	Lead -ICP-Fusion	ug/g	102.0	1.07e-01	5.27e+02	6.152e2	5.712e2	15.4	99.63	498.0	n/a
S95T000790		F	Sulfur -ICP-Fusion	ug/g	101.1	1.73e-01	6.07e+03	6.200e3	6.140e3	2.00	102.7	249.0	n/a
S95T000790		F	Antimony -ICP-Fusion	ug/g	95.93	-1.25e-1	<9.95e+02	<1005.00	n/a	n/a	92.35	995.0	n/a
S95T000790		F	Selenium -ICP-Fusion	ug/g	102.1	-2.710e0	<4.98e+02	<502.500	n/a	n/a	72.43	498.0	n/a
S95T000790		F	Silicon -ICP-Fusion	ug/g	95.89	5.34e-01	4.32e+02	5.154e2	4.735e2	17.7	96.30	249.0	n/a
S95T000790		F	Samarium -ICP-Fusion	ug/g	101.5	3.60e-02	<4.98e+02	<502.500	n/a	n/a	93.70	498.0	n/a
S95T000790		F	Strontium -ICP-Fusion	ug/g	99.41	0.00e+00	4.34e+02	4.459e2	4.400e2	2.69	90.86	49.80	n/a
S95T000790		F	Titanium-ICP-Fusion	ug/g	98.42	1.90e-02	1.37e+02	1.269e2	1.321e2	7.81	92.49	49.80	n/a
S95T000790		F	Thallium -ICP-Fusion	ug/g	98.73	3.17e-01	<9.95e+02	<1005.00	n/a	n/a	96.36	995.0	n/a
S95T000790		F	Uranium -ICP-Fusion	ug/g	100.3	-3.620e0	5.26e+03	6.200e3	5.730e3	16.4	92.44	1.990e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000790		F	Vanadium -ICP-Fusion	ug/g	97.79	1.10e-02	<2.49e+02	<251.250	n/a	n/a	94.05	249.0	n/a
S95T000790		F	Zinc -ICP-Fusion	ug/g	102.2	4.00e-03	1.28e+02	1.076e2	1.176e2	17.0	99.07	49.80	n/a
S95T000790		F	Zirconium -ICP-Fusion	ug/g	100.4	5.90e-02	< 49.80	<50.2500	n/a	n/a	94.41	49.80	n/a
S95T000996		W	Chloride-IC-Dionex 4000i/4500	ug/g	98.23	<8.000e-2	1.26e+03	1.360e3	1.310e3	7.63	102.7	800.0	n/a
S95T000996		W	Fluoride-IC-Dionex 4000i/4500	ug/g	96.61	<6.000e-2	<6.00e+02	<5.69e2	n/a	n/a	88.00	600.0	n/a
S95T000996		W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.60	<5.000e-1	2.10e+04	2.100e4	2.100e4	0.00	101.4	5.000e3	n/a
S95T000996		W	Nitrate by IC-Dionex4000i/4500	ug/g	100.0	<7.000e-1	1.94e+05	1.880e5	1.910e5	3.14	103.5	7.000e3	n/a
S95T000996		W	Phosphate-IC-Dionex 4000i/4500	ug/g	94.50	<5.000e-1	2.76e+04	2.660e4	2.710e4	3.69	93.10	5.000e3	n/a
S95T000996		W	Sulfate by IC-Dionex4000i/4500	ug/g	97.94	<7.000e-1	1.82e+04	1.800e4	1.810e4	1.10	96.20	7.000e3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000786			% Water by TGA using Mettler	%	92.70	n/a	51.36	4.958e1	5.047e1	3.53	n/a	n/a	n/a
S95T000786			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000786			DSC Exotherm using Mettler	Joules/g	101.9	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000787		F	Uranium by Phosphorescence	ug/g	95.02	65.80	9.99e+03	9.660e3	9.820e3	3.36	96.30	3.210e-1	n/a
S95T000787		F	Alpha of Digested Solid	uCi/g	103.0	<1.560e-2	1.38e-01	3.040e-2	8.420e-2	128	99.50	3.500e-2	105.5
S95T000787		F	Americium-241 by GEA	uCi/g	n/a	<3.020e-2	<1.21e-01	<1.23e-1	n/a	n/a	n/a	3.000e-2	n/a
S95T000787		F	Cobalt-60 by GEA	uCi/g	100.5	<7.130e-3	<8.28e-03	<8.55e-3	n/a	n/a	n/a	7.000e-3	n/a
S95T000787		F	Cesium-137 by GEA	uCi/g	106.8	<1.070e-2	11.70	1.200e1	1.185e1	2.53	n/a	1.100e-2	0.69
S95T000787		F	Europium-154 by GEA	uCi/g	n/a	<2.070e-2	<2.94e-02	<2.77e-2	n/a	n/a	n/a	2.100e-2	n/a
S95T000787		F	Europium-155 by GEA	uCi/g	n/a	<1.350e-2	<5.10e-02	<5.19e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000787		F	Silver -ICP-Fusion	ug/g	99.49	-6.30e-2	< 43.44	<43.1000	n/a	n/a	80.61	43.40	n/a
S95T000787		F	Aluminium -ICP-Fusion	ug/g	100.6	1.53e-01	1.83e+03	1.720e3	1.770e3	6.08	90.91	217.0	n/a
S95T000787		F	Arsenic -ICP-Fusion	ug/g	103.3	4.90e-02	<2.17e+02	<215.500	n/a	n/a	98.81	217.0	n/a
S95T000787		F	Boron -ICP-Fusion	ug/g	100.6	-1.00e-2	<2.17e+02	<215.500	n/a	n/a	94.91	217.0	n/a
S95T000787		F	Barium -ICP-Fusion	ug/g	99.73	1.00e-03	<2.17e+02	<215.500	n/a	n/a	90.72	217.0	n/a
S95T000787		F	Beryllium -ICP-Fusion	ug/g	103.9	-5.00e-3	< 21.72	<21.5500	n/a	n/a	96.71	21.70	n/a
S95T000787		F	Bismuth -ICP-Fusion	ug/g	100.4	-9.040e0	<4.34e+02	<431.000	n/a	n/a	21.63	434.0	n/a
S95T000787		F	Calcium -ICP-Fusion	ug/g	101.7	5.20e-01	4.01e+03	4.110e3	4.060e3	2.70	97.90	434.0	n/a
S95T000787		F	Cadmium -ICP-Fusion	ug/g	102.4	9.00e-03	< 43.44	<43.1000	n/a	n/a	97.99	43.40	n/a
S95T000787		F	Cerium -ICP-Fusion	ug/g	101.8	-5.20e-2	<4.34e+02	<431.000	n/a	n/a	93.73	434.0	n/a
S95T000787		F	Cobalt -ICP-Fusion	ug/g	102.2	-1.70e-2	< 86.90	<86.2000	n/a	n/a	97.14	86.90	n/a
S95T000787		F	Chromium -ICP-Fusion	ug/g	102.4	4.00e-03	1.47e+02	1.441e2	1.454e2	1.73	98.11	43.40	n/a
S95T000787		F	Copper -ICP-Fusion	ug/g	101.5	2.70e-02	< 43.44	<43.1000	n/a	n/a	93.65	43.40	n/a
S95T000787		F	Iron -ICP-Fusion	ug/g	102.4	6.70e-02	1.62e+04	1.680e4	1.650e4	3.58	94.19	217.0	n/a
S95T000787		F	Lanthanum -ICP-Fusion	ug/g	101.4	-3.00e-3	<2.17e+02	<215.500	n/a	n/a	93.52	217.0	n/a
S95T000787		F	Lithium -ICP-Fusion	ug/g	100.9	-5.00e-3	< 43.44	<43.1000	n/a	n/a	90.87	43.40	n/a
S95T000787		F	Magnesium -ICP-Fusion	ug/g	100.2	2.93e-01	9.01e+02	7.994e2	8.500e2	11.9	89.33	434.0	n/a
S95T000787		F	Manganese -ICP-Fusion	ug/g	100.0	6.50e-02	1.29e+02	1.235e2	1.263e2	4.39	93.03	43.40	n/a
S95T000787		F	Molybdenum -ICP-Fusion	ug/g	102.3	7.00e-03	<2.17e+02	<215.500	n/a	n/a	99.07	217.0	n/a
S95T000787		F	Sodium -ICP-Fusion	ug/g	99.50	4.705	1.09e+05	1.130e5	1.110e5	3.10	123.8	434.0	n/a
S95T000787		F	Neodymium -ICP-Fusion	ug/g	104.2	-1.90e-2	<4.34e+02	<431.000	n/a	n/a	95.92	434.0	n/a
S95T000787		F	Nickel -ICP-Fusion	ug/g	101.6	29.64	8.55e+03	3.160e3	5.850e3	92.0	94.93	86.90	n/a
S95T000787		F	Phosphorus -ICP-Fusion	ug/g	101.8	1.29e-01	2.40e+04	2.440e4	2.420e4	1.87	89.96	869.0	n/a
S95T000787		F	Lead -ICP-Fusion	ug/g	102.0	1.07e-01	4.40e+02	5.337e2	4.871e2	19.1	97.29	434.0	n/a
S95T000787		F	Sulfur -ICP-Fusion	ug/g	101.1	1.73e-01	6.41e+03	6.530e3	6.470e3	1.90	95.51	217.0	n/a
S95T000787		F	Antimony -ICP-Fusion	ug/g	95.93	-1.25e-1	<8.69e+02	<862.000	n/a	n/a	92.83	869.0	n/a
S95T000787		F	Selenium -ICP-Fusion	ug/g	102.1	-2.710e0	<4.34e+02	<431.000	n/a	n/a	74.54	434.0	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000787		F	Silicon -ICP-Fusion	ug/g	95.89	5.34e-01	3.70e+02	3.137e2	3.420e2	16.5	95.35	217.0	n/a
S95T000787		F	Samarium -ICP-Fusion	ug/g	101.5	3.60e-02	<4.34e+02	<431.000	n/a	n/a	93.79	434.0	n/a
S95T000787		F	Strontium -ICP-Fusion	ug/g	99.41	0.00e+00	3.72e+02	3.849e2	3.786e2	3.32	91.67	43.40	n/a
S95T000787		F	Titanium-ICP-Fusion	ug/g	98.42	1.90e-02	1.00e+02	9.867e1	9.953e1	1.72	95.50	43.40	n/a
S95T000787		F	Thallium -ICP-Fusion	ug/g	98.73	3.17e-01	<8.69e+02	<862.000	n/a	n/a	95.15	869.0	n/a
S95T000787		F	Uranium -ICP-Fusion	ug/g	100.3	-3.620e0	7.72e+03	8.140e3	7.930e3	5.19	92.17	1.740e3	n/a
S95T000787		F	Vanadium -ICP-Fusion	ug/g	97.79	1.10e-02	<2.17e+02	<215.500	n/a	n/a	93.73	217.0	n/a
S95T000787		F	Zinc -ICP-Fusion	ug/g	102.2	4.00e-03	1.69e+02	8.975e1	1.296e2	61.5	96.13	43.40	n/a
S95T000787		F	Zirconium -ICP-Fusion	ug/g	100.4	5.90e-02	< 43.44	<43.1000	n/a	n/a	94.36	43.40	n/a
S95T000995		W	Chloride-IC-Dionex 4000i/4500	ug/g	102.5	<8.000e-2	1.45e+03	1.370e3	1.410e3	5.67	n/a	792.0	n/a
S95T000995		W	Fluoride-IC-Dionex 4000i/4500	ug/g	98.47	<6.000e-2	<5.94e+02	<5.95e2	n/a	n/a	n/a	594.0	n/a
S95T000995		W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.9	<5.000e-1	2.20e+04	2.180e4	2.190e4	0.91	n/a	4.950e3	n/a
S95T000995		W	Nitrate by IC-Dionex4000i/4500	ug/g	103.1	<7.000e-1	2.05e+05	2.060e5	2.060e5	0.49	n/a	6.930e3	n/a
S95T000995		W	Phosphate-IC-Dionex 4000i/4500	ug/g	93.59	<5.000e-1	2.63e+04	2.640e4	2.640e4	0.38	n/a	4.950e3	n/a
S95T000995		W	Sulfate by IC-Dionex4000i/4500	ug/g	100.5	<7.000e-1	1.91e+04	1.920e4	1.920e4	0.52	n/a	6.930e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 85
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000839			% Water by TGA using Mettler	%	99.78	n/a	50.98	5.170e1	5.134e1	1.40	n/a	n/a	n/a
S95T000839			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000839			DSC Exotherm using Mettler	Joules/g	100.5	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000840		F	Uranium by Phosphorescence	ug/g	95.97	8.740	1.70e+04	1.660e4	1.680e4	2.38	167.0	2.160	n/a
S95T000840		F	Alpha of Digested Solid	uCi/g	85.81	<1.570e-2	<3.89e-02	<3.44e-2	n/a	n/a	87.60	7.900e-2	500.0
S95T000840		F	Americium-241 by GEA	uCi/g	n/a	<7.380e-2	<4.51e-01	<4.43e-1	n/a	n/a	n/a	7.400e-2	n/a
S95T000840		F	Cobalt-60 by GEA	uCi/g	99.06	<1.340e-2	<2.32e-02	<1.70e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000840		F	Cesium-137 by GEA	uCi/g	107.2	<2.620e-2	28.40	2.850e1	2.845e1	0.35	n/a	2.600e-2	.94
S95T000840		F	Europium-154 by GEA	uCi/g	n/a	<3.220e-2	<6.57e-02	<6.18e-2	n/a	n/a	n/a	3.200e-2	n/a
S95T000840		F	Europium-155 by GEA	uCi/g	n/a	<2.700e-2	<1.60e-01	<1.58e-1	n/a	n/a	n/a	2.700e-2	n/a
S95T000840		F	Silver -ICP-Fusion	ug/g	100.7	-4.80e-2	< 53.00	<52.8100	n/a	n/a	81.25	53.00	n/a
S95T000840		F	Aluminium -ICP-Fusion	ug/g	100.2	-4.30e-2	7.02e+02	6.832e2	6.925e2	2.69	94.20	265.0	n/a
S95T000840		F	Arsenic -ICP-Fusion	ug/g	104.3	-2.90e-2	<2.65e+02	<264.050	n/a	n/a	100.6	265.0	n/a
S95T000840		F	Boron -ICP-Fusion	ug/g	100.4	-5.00e-4	<2.65e+02	<264.050	n/a	n/a	93.82	265.0	n/a
S95T000840		F	Barium -ICP-Fusion	ug/g	98.94	1.90e-02	<2.65e+02	<264.050	n/a	n/a	89.63	265.0	n/a
S95T000840		F	Beryllium -ICP-Fusion	ug/g	104.8	-4.00e-3	< 26.50	<26.4050	n/a	n/a	97.20	26.50	n/a
S95T000840		F	Bismuth -ICP-Fusion	ug/g	102.0	-8.360e0	<5.30e+02	<528.100	n/a	n/a	15.67	530.0	n/a
S95T000840		F	Calcium -ICP-Fusion	ug/g	105.3	6.74e-01	2.02e+03	1.930e3	1.980e3	4.54	102.5	530.0	n/a
S95T000840		F	Cadmium -ICP-Fusion	ug/g	104.4	1.20e-02	< 53.00	<52.8100	n/a	n/a	99.93	53.00	n/a
S95T000840		F	Cerium -ICP-Fusion	ug/g	101.7	-4.30e-2	<5.30e+02	<528.100	n/a	n/a	92.82	530.0	n/a
S95T000840		F	Cobalt -ICP-Fusion	ug/g	103.7	-2.00e-4	<1.06e+02	<105.620	n/a	n/a	98.30	106.0	n/a
S95T000840		F	Chromium -ICP-Fusion	ug/g	104.2	1.30e-02	1.31e+02	9.367e1	1.122e2	33.1	99.66	53.00	n/a
S95T000840		F	Copper -ICP-Fusion	ug/g	100.8	1.90e-02	< 53.00	<52.8100	n/a	n/a	92.06	53.00	n/a
S95T000840		F	Iron -ICP-Fusion	ug/g	103.7	8.10e-02	2.44e+04	2.370e4	2.410e4	2.86	101.4	265.0	n/a
S95T000840		F	Lanthanum -ICP-Fusion	ug/g	101.1	-1.20e-2	<2.65e+02	<264.050	n/a	n/a	92.61	265.0	n/a
S95T000840		F	Lithium -ICP-Fusion	ug/g	98.71	6.00e-03	< 53.00	<52.8100	n/a	n/a	87.97	53.00	n/a
S95T000840		F	Magnesium -ICP-Fusion	ug/g	100.1	3.57e-01	5.45e+02	<528.100	n/a	n/a	88.61	530.0	n/a
S95T000840		F	Manganese -ICP-Fusion	ug/g	101.2	2.10e-02	1.17e+02	1.139e2	1.154e2	2.60	94.14	53.00	n/a
S95T000840		F	Molybdenum -ICP-Fusion	ug/g	103.6	5.00e-03	<2.65e+02	<264.050	n/a	n/a	99.67	265.0	n/a
S95T000840		F	Sodium -ICP-Fusion	ug/g	98.27	4.222	1.08e+05	1.090e5	1.080e5	0.99	66.10	530.0	n/a
S95T000840		F	Neodymium -ICP-Fusion	ug/g	103.8	3.60e-02	<5.30e+02	<528.100	n/a	n/a	94.69	530.0	n/a
S95T000840		F	Nickel -ICP-Fusion	ug/g	103.5	6.860	4.87e+03	5.420e3	5.150e3	10.8	90.63	106.0	n/a
S95T000840		F	Phosphorus -ICP-Fusion	ug/g	105.5	1.31e-01	2.23e+04	2.140e4	2.180e4	3.89	99.45	1.060e3	n/a
S95T000840		F	Lead -ICP-Fusion	ug/g	104.3	4.43e-01	5.60e+02	5.406e2	5.504e2	3.57	103.1	530.0	n/a
S95T000840		F	Sulfur -ICP-Fusion	ug/g	102.7	3.26e-01	6.41e+03	6.450e3	6.430e3	0.69	97.62	265.0	n/a
S95T000840		F	Antimony -ICP-Fusion	ug/g	97.03	-6.60e-2	<1.06e+03	<1056.20	n/a	n/a	93.60	1.060e3	n/a
S95T000840		F	Selenium -ICP-Fusion	ug/g	103.6	-2.270e0	<5.30e+02	<528.100	n/a	n/a	77.04	530.0	n/a
S95T000840		F	Silicon -ICP-Fusion	ug/g	97.03	2.01e-01	6.90e+02	6.492e2	6.696e2	6.08	96.69	265.0	n/a
S95T000840		F	Samarium -ICP-Fusion	ug/g	101.0	1.22e-01	<5.30e+02	<528.100	n/a	n/a	93.30	530.0	n/a
S95T000840		F	Strontium -ICP-Fusion	ug/g	99.24	0.00e+00	6.38e+02	6.272e2	6.324e2	1.65	90.50	53.00	n/a
S95T000840		F	Titanium-ICP-Fusion	ug/g	98.90	2.60e-02	< 53.00	<52.8100	n/a	n/a	93.81	53.00	n/a
S95T000840		F	Thallium -ICP-Fusion	ug/g	101.0	1.79e-01	<1.06e+03	<1056.20	n/a	n/a	98.01	1.060e3	n/a
S95T000840		F	Uranium -ICP-Fusion	ug/g	99.75	-2.880e0	1.43e+04	1.400e4	1.420e4	2.37	90.55	2.120e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000840		F	Vanadium -ICP-Fusion	ug/g	98.94	4.10e-02	<2.65e+02	<264.050	n/a	n/a	94.63	265.0	n/a
S95T000840		F	Zinc -ICP-Fusion	ug/g	104.0	7.10e-02	1.07e+02	1.168e2	1.119e2	8.70	99.62	53.00	n/a
S95T000840		F	Zirconium -ICP-Fusion	ug/g	101.0	5.10e-02	< 53.00	<52.8100	n/a	n/a	94.65	53.00	n/a
S95T000998		W	Chloride-IC-Dionex 4000i/4500	ug/g	98.23	<8.000e-2	1.47e+03	1.340e3	1.400e3	9.25	n/a	765.0	n/a
S95T000998		W	Fluoride-IC-Dionex 4000i/4500	ug/g	96.61	<6.000e-2	<5.74e+02	<5.68e2	n/a	n/a	n/a	574.0	n/a
S95T000998		W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.60	<5.000e-1	2.09e+04	2.010e4	2.050e4	3.90	n/a	4.780e3	n/a
S95T000998		W	Nitrate by IC-Dionex4000i/4500	ug/g	100.0	<7.000e-1	2.01e+05	2.040e5	2.020e5	1.48	n/a	6.690e3	n/a
S95T000998		W	Phosphate-IC-Dionex 4000i/4500	ug/g	94.50	<5.000e-1	2.35e+04	2.250e4	2.300e4	4.35	n/a	4.780e3	n/a
S95T000998		W	Sulfate by IC-Dionex4000i/4500	ug/g	97.94	<7.000e-1	1.87e+04	1.830e4	1.850e4	2.16	n/a	6.690e3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000836			% Water by TGA using Mettler	%	99.78	n/a	51.23	5.086e1	5.105e1	0.72	n/a	n/a	n/a
S95T000836			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000836			DSC Exotherm using Mettler	Joules/g	100.5	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000837		F	Uranium by Phosphorescence	ug/g	99.17	88.10	2.42e+04	2.470e4	2.440e4	2.04	96.30	1.760e-1	n/a
S95T000837		F	Alpha of Digested Solid	uCi/g	85.81	<1.570e-2	<3.35e-02	2.860e-2	n/a	n/a	80.50	3.600e-2	136.0
S95T000837		F	Americium-241 by GEA	uCi/g	n/a	<7.380e-2	<3.17e-01	<3.16e-1	n/a	n/a	n/a	7.400e-2	n/a
S95T000837		F	Cobalt-60 by GEA	uCi/g	99.06	<1.340e-2	<1.67e-02	<1.39e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000837		F	Cesium-137 by GEA	uCi/g	107.2	<2.620e-2	14.40	1.500e1	1.470e1	4.08	n/a	2.600e-2	1.25
S95T000837		F	Europium-154 by GEA	uCi/g	n/a	<3.220e-2	<4.42e-02	<4.19e-2	n/a	n/a	n/a	3.200e-2	n/a
S95T000837		F	Europium-155 by GEA	uCi/g	n/a	<2.700e-2	<1.10e-01	<1.14e-1	n/a	n/a	n/a	2.700e-2	n/a
S95T000837		F	Silver -ICP-Fusion	ug/g	100.7	-4.80e-2	< 47.63	<47.6400	n/a	n/a	80.72	47.60	n/a
S95T000837		F	Aluminium -ICP-Fusion	ug/g	100.2	-4.30e-2	6.12e+02	5.984e2	6.054e2	2.30	91.87	238.0	n/a
S95T000837		F	Arsenic -ICP-Fusion	ug/g	104.3	-2.90e-2	<2.38e+02	<238.200	n/a	n/a	100.9	238.0	n/a
S95T000837		F	Boron -ICP-Fusion	ug/g	100.4	-5.00e-4	<2.38e+02	<238.200	n/a	n/a	93.61	238.0	n/a
S95T000837		F	Barium -ICP-Fusion	ug/g	98.94	1.90e-02	<2.38e+02	<238.200	n/a	n/a	89.42	238.0	n/a
S95T000837		F	Beryllium -ICP-Fusion	ug/g	104.8	-4.00e-3	< 23.82	<23.8200	n/a	n/a	96.13	23.80	n/a
S95T000837		F	Bismuth -ICP-Fusion	ug/g	102.0	-8.360e0	<4.76e+02	<476.400	n/a	n/a	18.39	476.0	n/a
S95T000837		F	Calcium -ICP-Fusion	ug/g	105.3	6.74e-01	1.53e+03	1.590e3	1.560e3	4.22	97.93	476.0	n/a
S95T000837		F	Cadmium -ICP-Fusion	ug/g	104.4	1.20e-02	< 47.63	<47.6400	n/a	n/a	98.14	47.60	n/a
S95T000837		F	Cerium -ICP-Fusion	ug/g	101.7	-4.30e-2	<4.76e+02	<476.400	n/a	n/a	93.20	476.0	n/a
S95T000837		F	Cobalt -ICP-Fusion	ug/g	103.7	-2.00e-4	< 95.30	<95.2800	n/a	n/a	97.02	95.30	n/a
S95T000837		F	Chromium -ICP-Fusion	ug/g	104.2	1.30e-02	1.87e+02	1.719e2	1.793e2	8.22	97.81	47.60	n/a
S95T000837		F	Copper -ICP-Fusion	ug/g	100.8	1.90e-02	< 47.63	<47.6400	n/a	n/a	92.01	47.60	n/a
S95T000837		F	Iron -ICP-Fusion	ug/g	103.7	8.10e-02	2.23e+04	2.300e4	2.260e4	3.27	93.82	238.0	n/a
S95T000837		F	Lanthanum -ICP-Fusion	ug/g	101.1	-1.20e-2	<2.38e+02	<238.200	n/a	n/a	92.37	238.0	n/a
S95T000837		F	Lithium -ICP-Fusion	ug/g	98.71	6.00e-03	< 47.63	<47.6400	n/a	n/a	88.95	47.60	n/a
S95T000837		F	Magnesium -ICP-Fusion	ug/g	100.1	3.57e-01	5.55e+02	<476.400	n/a	n/a	89.28	476.0	n/a
S95T000837		F	Manganese -ICP-Fusion	ug/g	101.2	2.10e-02	1.10e+02	1.094e2	1.096e2	0.31	72.00	47.60	n/a
S95T000837		F	Molybdenum -ICP-Fusion	ug/g	103.6	5.00e-03	<2.38e+02	<238.200	n/a	n/a	98.77	238.0	n/a
S95T000837		F	Sodium -ICP-Fusion	ug/g	98.27	4.222	1.03e+05	1.050e5	1.040e5	2.10	151.2	476.0	n/a
S95T000837		F	Neodymium -ICP-Fusion	ug/g	103.8	3.60e-02	<4.76e+02	<476.400	n/a	n/a	94.69	476.0	n/a
S95T000837		F	Nickel -ICP-Fusion	ug/g	103.5	6.860	4.49e+03	3.530e3	4.010e3	24.0	96.33	95.30	n/a
S95T000837		F	Phosphorus -ICP-Fusion	ug/g	105.5	1.31e-01	2.01e+04	2.080e4	2.040e4	3.40	109.7	953.0	n/a
S95T000837		F	Lead -ICP-Fusion	ug/g	104.3	4.43e-01	9.59e+02	9.000e2	9.297e2	6.39	94.41	476.0	n/a
S95T000837		F	Sulfur -ICP-Fusion	ug/g	102.7	3.26e-01	6.53e+03	6.490e3	6.510e3	0.66	96.15	238.0	n/a
S95T000837		F	Antimony -ICP-Fusion	ug/g	97.03	-6.60e-2	<9.53e+02	<952.800	n/a	n/a	92.69	953.0	n/a
S95T000837		F	Selenium -ICP-Fusion	ug/g	103.6	-2.270e0	<4.76e+02	<476.400	n/a	n/a	82.53	476.0	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000837		F	Silicon -ICP-Fusion	ug/g	97.03	2.01e-01	8.82e+02	7.622e2	8.223e2	14.6	94.66	238.0	n/a
S95T000837		F	Samarium -ICP-Fusion	ug/g	101.0	1.22e-01	<4.76e+02	<476.400	n/a	n/a	93.05	476.0	n/a
S95T000837		F	Strontium -ICP-Fusion	ug/g	99.24	0.00e+00	6.37e+02	6.650e2	6.509e2	4.31	90.52	47.60	n/a
S95T000837		F	Titanium-ICP-Fusion	ug/g	98.90	2.60e-02	< 47.63	<47.6400	n/a	n/a	93.04	47.60	n/a
S95T000837		F	Thallium -ICP-Fusion	ug/g	101.0	1.79e-01	<9.53e+02	<952.800	n/a	n/a	94.60	953.0	n/a
S95T000837		F	Uranium -ICP-Fusion	ug/g	99.75	-2.880e0	2.12e+04	2.170e4	2.150e4	2.42	93.03	1.910e3	n/a
S95T000837		F	Vanadium -ICP-Fusion	ug/g	98.94	4.10e-02	<2.38e+02	<238.200	n/a	n/a	93.58	238.0	n/a
S95T000837		F	Zinc -ICP-Fusion	ug/g	104.0	7.10e-02	1.73e+02	1.860e2	1.793e2	7.46	97.79	47.60	n/a
S95T000837		F	Zirconium -ICP-Fusion	ug/g	101.0	5.10e-02	< 47.63	<47.6400	n/a	n/a	93.77	47.60	n/a
S95T000997		W	Chloride-IC-Dionex 4000i/4500	ug/g	98.23	<8.000e-2	1.29e+03	1.310e3	1.300e3	1.54	n/a	787.0	n/a
S95T000997		W	Fluoride-IC-Dionex 4000i/4500	ug/g	96.61	<6.000e-2	<5.90e+02	<5.69e2	n/a	n/a	n/a	590.0	n/a
S95T000997		W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.60	<5.000e-1	1.89e+04	1.960e4	1.920e4	3.64	n/a	4.920e3	n/a
S95T000997		W	Nitrate by IC-Dionex4000i/4500	ug/g	100.0	<7.000e-1	1.98e+05	1.990e5	1.980e5	0.50	n/a	6.880e3	n/a
S95T000997		W	Phosphate-IC-Dionex 4000i/4500	ug/g	94.50	<5.000e-1	2.10e+04	2.110e4	2.100e4	0.48	n/a	4.920e3	n/a
S95T000997		W	Sulfate by IC-Dionex4000i/4500	ug/g	97.94	<7.000e-1	1.82e+04	1.860e4	1.840e4	2.17	n/a	6.880e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 85
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000850			% Water by TGA using Mettler	%	99.39	n/a	53.46	5.463e1	5.405e1	2.16	n/a	n/a	n/a
S95T000850			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000850			DSC Exotherm using Mettler	Joules/g	104.7	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000851		F	Uranium by Phosphorescence	ug/g	96.44	50.90	1.58e+04	1.630e4	1.600e4	3.12	138.0	1.800e-2	n/a
S95T000851		F	Alpha of Digested Solid	uCi/g	94.93	<2.860e-2	<2.00e-02	<2.00e-2	n/a	n/a	77.90	4.500e-2	500.0
S95T000851		F	Americium-241 by GEA	uCi/g	n/a	<7.940e-2	<3.12e-01	<2.94e-1	n/a	n/a	n/a	7.900e-2	n/a
S95T000851		F	Cobalt-60 by GEA	uCi/g	101.4	<1.310e-2	<1.33e-02	<1.54e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000851		F	Cesium-137 by GEA	uCi/g	106.4	<3.050e-2	10.70	1.070e1	1.070e1	0.00	n/a	3.000e-2	1.46
S95T000851		F	Europium-154 by GEA	uCi/g	n/a	<3.620e-2	<3.81e-02	<5.31e-2	n/a	n/a	n/a	3.600e-2	n/a
S95T000851		F	Europium-155 by GEA	uCi/g	n/a	<2.700e-2	<1.09e-01	<1.09e-1	n/a	n/a	n/a	2.700e-2	n/a
S95T000851		F	Silver -ICP-Fusion	ug/g	102.1	-3.00e-3	< 48.00	<48.1100	n/a	n/a	75.64	48.00	n/a
S95T000851		F	Aluminium -ICP-Fusion	ug/g	102.4	1.24e-01	6.04e+02	5.158e2	5.599e2	15.8	94.40	240.0	n/a
S95T000851		F	Arsenic -ICP-Fusion	ug/g	106.1	8.90e-02	<2.40e+02	<240.550	n/a	n/a	102.3	240.0	n/a
S95T000851		F	Boron -ICP-Fusion	ug/g	101.8	6.50e-02	<2.40e+02	<240.550	n/a	n/a	95.43	240.0	n/a
S95T000851		F	Barium -ICP-Fusion	ug/g	102.0	2.50e-02	<2.40e+02	<240.550	n/a	n/a	92.92	240.0	n/a
S95T000851		F	Beryllium -ICP-Fusion	ug/g	106.8	-2.00e-3	< 24.00	<24.0550	n/a	n/a	98.34	24.00	n/a
S95T000851		F	Bismuth -ICP-Fusion	ug/g	103.9	-9.990e0	<4.80e+02	<481.100	n/a	n/a	14.88	480.0	n/a
S95T000851		F	Calcium -ICP-Fusion	ug/g	104.4	6.91e-01	8.13e+02	8.597e2	8.365e2	5.55	95.12	480.0	n/a
S95T000851		F	Cadmium -ICP-Fusion	ug/g	105.0	4.00e-03	< 48.00	<48.1100	n/a	n/a	98.56	48.00	n/a
S95T000851		F	Cerium -ICP-Fusion	ug/g	103.6	-1.10e-2	<4.80e+02	<481.100	n/a	n/a	95.30	480.0	n/a
S95T000851		F	Cobalt -ICP-Fusion	ug/g	103.9	1.00e-02	< 96.00	<96.2200	n/a	n/a	97.68	96.00	n/a
S95T000851		F	Chromium -ICP-Fusion	ug/g	104.9	1.00e-02	1.79e+02	1.717e2	1.753e2	4.08	98.93	48.00	n/a
S95T000851		F	Copper -ICP-Fusion	ug/g	102.9	2.20e-02	< 48.00	<48.1100	n/a	n/a	95.32	48.00	n/a
S95T000851		F	Iron -ICP-Fusion	ug/g	104.8	7.80e-02	1.96e+04	1.920e4	1.940e4	1.84	0.00e+00	240.0	n/a
S95T000851		F	Lanthanum -ICP-Fusion	ug/g	103.6	-7.00e-3	<2.40e+02	<240.550	n/a	n/a	95.10	240.0	n/a
S95T000851		F	Lithium -ICP-Fusion	ug/g	102.7	9.00e-03	1.65e+02	1.684e2	1.668e2	1.90	92.93	48.00	n/a
S95T000851		F	Magnesium -ICP-Fusion	ug/g	102.4	1.57e-01	<4.80e+02	<481.100	n/a	n/a	97.14	480.0	n/a
S95T000851		F	Manganese -ICP-Fusion	ug/g	102.5	6.80e-02	1.32e+02	1.217e2	1.270e2	8.26	94.40	48.00	n/a
S95T000851		F	Molybdenum -ICP-Fusion	ug/g	103.9	2.00e-03	<2.40e+02	<240.550	n/a	n/a	99.32	240.0	n/a
S95T000851		F	Sodium -ICP-Fusion	ug/g	101.6	5.136	1.03e+05	1.000e5	1.020e5	2.69	0.00e+00	480.0	n/a
S95T000851		F	Neodymium -ICP-Fusion	ug/g	106.5	-5.00e-3	<4.80e+02	<481.100	n/a	n/a	96.78	480.0	n/a
S95T000851		F	Nickel -ICP-Fusion	ug/g	104.0	3.339	1.13e+03	1.200e3	1.170e3	5.86	97.23	96.00	n/a
S95T000851		F	Phosphorus -ICP-Fusion	ug/g	103.7	3.88e-01	1.73e+04	1.770e4	1.750e4	1.98	0.00e+00	960.0	n/a
S95T000851		F	Lead -ICP-Fusion	ug/g	105.0	4.33e-01	<4.80e+02	5.398e2	n/a	n/a	112.2	480.0	n/a
S95T000851		F	Sulfur -ICP-Fusion	ug/g	103.1	-2.60e-2	5.97e+03	5.980e3	5.980e3	0.13	98.63	240.0	n/a
S95T000851		F	Antimony -ICP-Fusion	ug/g	98.12	2.60e-02	<9.60e+02	<962.200	n/a	n/a	92.64	960.0	n/a
S95T000851		F	Selenium -ICP-Fusion	ug/g	105.6	-2.700e0	<4.80e+02	<481.100	n/a	n/a	73.29	480.0	n/a
S95T000851		F	Silicon -ICP-Fusion	ug/g	94.10	7.80e-01	7.43e+02	7.842e2	7.636e2	5.38	96.41	240.0	n/a
S95T000851		F	Samarium -ICP-Fusion	ug/g	103.9	1.06e-01	<4.80e+02	<481.100	n/a	n/a	94.91	480.0	n/a
S95T000851		F	Strontium -ICP-Fusion	ug/g	101.9	5.00e-03	6.80e+02	6.609e2	6.704e2	2.83	93.02	48.00	n/a
S95T000851		F	Titanium-ICP-Fusion	ug/g	100.4	6.60e-02	1.30e+02	<48.1100	n/a	n/a	93.70	48.00	n/a
S95T000851		F	Thallium -ICP-Fusion	ug/g	102.1	-6.00e-3	<9.60e+02	<962.200	n/a	n/a	95.77	960.0	n/a
S95T000851		F	Uranium -ICP-Fusion	ug/g	101.7	-3.410e0	2.19e+04	2.240e4	2.220e4	2.01	90.27	1.920e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000851		F	Vanadium -ICP-Fusion	ug/g	99.57	3.00e-02	<2.40e+02	<240.550	n/a	n/a	94.33	240.0	n/a
S95T000851		F	Zinc -ICP-Fusion	ug/g	103.9	2.30e-02	1.74e+02	1.696e2	1.716e2	2.32	98.55	48.00	n/a
S95T000851		F	Zirconium -ICP-Fusion	ug/g	102.0	9.70e-02	< 48.00	<48.1100	n/a	n/a	95.13	48.00	n/a
S95T001000		W	Bromide by Ion Chromatograph	ug/g	99.01	<6.040e-1	2.44e+03	2.400e3	2.420e3	1.65	n/a	1.260e-1	n/a
S95T001000		W	Chloride-IC-Dionex 4000i/4500	ug/g	104.3	<8.300e-2	1.17e+03	1.180e3	1.180e3	0.85	n/a	182.0	n/a
S95T001000		W	Fluoride-IC-Dionex 4000i/4500	ug/g	98.90	<6.200e-2	<1.36e+02	<1.34e2	n/a	n/a	n/a	136.0	n/a
S95T001000		W	Nitrite-IC - Dionex 4000i/4500	ug/g	103.0	<5.320e-1	1.73e+04	1.720e4	1.720e4	0.58	n/a	1.170e3	n/a
S95T001000		W	Nitrate by IC-Dionex4000i/4500	ug/g	99.58	<7.030e-1	1.85e+05	1.850e5	1.850e5	0.00	n/a	7.410e3	n/a
S95T001000		W	Phosphate-IC-Dionex 4000i/4500	ug/g	94.34	<5.720e-1	1.76e+04	1.750e4	1.760e4	0.57	n/a	1.250e3	n/a
S95T001000		W	Sulfate by IC-Dionex4000i/4500	ug/g	99.27	<6.970e-1	1.67e+04	1.620e4	1.640e4	3.04	n/a	6.620e3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000847			% Water by TGA using Mettler	%	99.39	n/a	51.29	5.139e1	5.134e1	0.19	n/a	n/a	n/a
S95T000847			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000847			DSC Exotherm using Mettler	Joules/g	104.7	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000848		F	Uranium by Phosphorescence	ug/g	97.39	179.0	2.57e+04	2.800e4	2.680e4	8.57	97.80	1.920	n/a
S95T000848		F	Alpha of Digested Solid	uCi/g	94.93	<2.860e-2	<3.98e-02	<3.20e-2	n/a	n/a	76.90	6.400e-2	500.0
S95T000848		F	Americium-241 by GEA	uCi/g	n/a	<7.940e-2	<3.37e-01	<3.34e-1	n/a	n/a	n/a	7.900e-2	n/a
S95T000848		F	Cobalt-60 by GEA	uCi/g	101.4	<1.310e-2	<2.11e-02	<1.35e-2	n/a	n/a	n/a	1.300e-2	n/a
S95T000848		F	Cesium-137 by GEA	uCi/g	106.4	<3.050e-2	8.460	8.330e0	8.395e0	1.55	n/a	3.000e-2	1.71
S95T000848		F	Europium-154 by GEA	uCi/g	n/a	<3.620e-2	<5.62e-02	<4.92e-2	n/a	n/a	n/a	2.700e-2	n/a
S95T000848		F	Europium-155 by GEA	uCi/g	n/a	<2.700e-2	<1.24e-01	<1.24e-1	n/a	n/a	n/a	3.600e-2	n/a
S95T000848		F	Silver -ICP-Fusion	ug/g	102.1	-3.00e-3	< 51.90	<52.8400	n/a	n/a	87.17	51.90	n/a
S95T000848		F	Aluminium -ICP-Fusion	ug/g	102.4	1.24e-01	5.53e+02	5.235e2	5.385e2	5.56	96.73	259.0	n/a
S95T000848		F	Arsenic -ICP-Fusion	ug/g	106.1	8.90e-02	<2.59e+02	<264.200	n/a	n/a	108.0	259.0	n/a
S95T000848		F	Boron -ICP-Fusion	ug/g	101.8	6.50e-02	<2.59e+02	<264.200	n/a	n/a	97.24	259.0	n/a
S95T000848		F	Barium -ICP-Fusion	ug/g	102.0	2.50e-02	<2.59e+02	<264.200	n/a	n/a	93.23	259.0	n/a
S95T000848		F	Beryllium -ICP-Fusion	ug/g	106.8	-2.00e-3	< 25.94	<26.4200	n/a	n/a	101.7	25.90	n/a
S95T000848		F	Bismuth -ICP-Fusion	ug/g	103.9	-9.990e0	<5.19e+02	<528.400	n/a	n/a	37.30	519.0	n/a
S95T000848		F	Calcium -ICP-Fusion	ug/g	104.4	6.91e-01	1.22e+03	1.410e3	1.320e3	14.0	105.9	519.0	n/a
S95T000848		F	Cadmium -ICP-Fusion	ug/g	105.0	4.00e-03	< 51.90	<52.8400	n/a	n/a	106.2	51.90	n/a
S95T000848		F	Cerium -ICP-Fusion	ug/g	103.6	-1.10e-2	<5.19e+02	<528.400	n/a	n/a	95.21	519.0	n/a
S95T000848		F	Cobalt -ICP-Fusion	ug/g	103.9	1.00e-02	<1.04e+02	<105.680	n/a	n/a	104.0	104.0	n/a
S95T000848		F	Chromium -ICP-Fusion	ug/g	104.9	1.00e-02	2.16e+02	2.114e2	2.139e2	2.32	106.8	51.90	n/a
S95T000848		F	Copper -ICP-Fusion	ug/g	102.9	2.20e-02	< 51.90	<52.8400	n/a	n/a	94.72	51.90	n/a
S95T000848		F	Iron -ICP-Fusion	ug/g	104.8	7.80e-02	2.35e+04	2.300e4	2.330e4	2.12	0.00e+00	259.0	n/a
S95T000848		F	Lanthanum -ICP-Fusion	ug/g	103.6	-7.00e-3	<2.59e+02	<264.200	n/a	n/a	95.38	259.0	n/a
S95T000848		F	Lithium -ICP-Fusion	ug/g	102.7	9.00e-03	< 51.90	<52.8400	n/a	n/a	89.01	51.90	n/a
S95T000848		F	Magnesium -ICP-Fusion	ug/g	102.4	1.57e-01	<5.19e+02	<528.400	n/a	n/a	101.5	519.0	n/a
S95T000848		F	Manganese -ICP-Fusion	ug/g	102.5	6.80e-02	1.58e+02	1.652e2	1.615e2	4.62	100.7	51.90	n/a
S95T000848		F	Molybdenum -ICP-Fusion	ug/g	103.9	2.00e-03	<2.59e+02	<264.200	n/a	n/a	105.5	259.0	n/a
S95T000848		F	Sodium -ICP-Fusion	ug/g	101.6	5.136	1.06e+05	1.010e5	1.030e5	3.97	0.00e+00	519.0	n/a
S95T000848		F	Neodymium -ICP-Fusion	ug/g	106.5	-5.00e-3	<5.19e+02	<528.400	n/a	n/a	97.24	519.0	n/a
S95T000848		F	Nickel -ICP-Fusion	ug/g	104.0	3.339	8.96e+02	7.538e2	8.251e2	17.3	104.8	104.0	n/a
S95T000848		F	Phosphorus -ICP-Fusion	ug/g	103.7	3.88e-01	1.98e+04	1.930e4	1.960e4	2.82	0.00e+00	1.040e3	n/a
S95T000848		F	Lead -ICP-Fusion	ug/g	105.0	4.33e-01	9.71e+02	1.080e3	1.030e3	10.7	107.9	519.0	n/a
S95T000848		F	Sulfur -ICP-Fusion	ug/g	103.1	-2.60e-2	6.59e+03	6.390e3	6.490e3	3.10	99.06	259.0	n/a
S95T000848		F	Antimony -ICP-Fusion	ug/g	98.12	2.60e-02	<1.04e+03	<1056.80	n/a	n/a	97.80	1.040e3	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000848		F	Selenium -ICP-Fusion	ug/g	105.6	-2.700e0	<5.19e+02	<528.400	n/a	n/a	88.65	519.0	n/a
S95T000848		F	Silicon -ICP-Fusion	ug/g	94.10	7.80e-01	9.32e+02	9.762e2	9.541e2	4.63	98.30	259.0	n/a
S95T000848		F	Samarium -ICP-Fusion	ug/g	103.9	1.06e-01	<5.19e+02	<528.400	n/a	n/a	96.91	519.0	n/a
S95T000848		F	Strontium -ICP-Fusion	ug/g	101.9	5.00e-03	7.66e+02	7.595e2	7.627e2	0.85	93.77	51.90	n/a
S95T000848		F	Titanium-ICP-Fusion	ug/g	100.4	6.60e-02	< 51.90	1.477e2	n/a	n/a	96.90	51.90	n/a
S95T000848		F	Thallium -ICP-Fusion	ug/g	102.1	-6.00e-3	<1.04e+03	<1056.80	n/a	n/a	100.5	1.040e3	n/a
S95T000848		F	Uranium -ICP-Fusion	ug/g	101.7	-3.410e0	2.37e+04	2.270e4	2.320e4	4.27	89.97	2.080e3	n/a
S95T000848		F	Vanadium -ICP-Fusion	ug/g	99.57	3.00e-02	<2.59e+02	<264.200	n/a	n/a	99.48	259.0	n/a
S95T000848		F	Zinc -ICP-Fusion	ug/g	103.9	2.30e-02	2.30e+02	2.102e2	2.203e2	9.20	105.0	51.90	n/a
S95T000848		F	Zirconium -ICP-Fusion	ug/g	102.0	9.70e-02	< 51.90	<52.8400	n/a	n/a	98.33	51.90	n/a
S95T000999		W	Bromide by Ion Chromatograph	ug/g	99.01	<6.040e-1	<5.74e+03	<5.53e3	n/a	n/a	92.30	1.260e-1	n/a
S95T000999		W	Chloride-IC-Dionex 4000i/4500	ug/g	104.3	<8.300e-2	1.39e+03	1.250e3	1.320e3	10.6	95.40	788.0	n/a
S95T000999		W	Fluoride-IC-Dionex 4000i/4500	ug/g	98.90	<6.200e-2	<5.88e+02	<5.67e2	n/a	n/a	96.00	588.0	n/a
S95T000999		W	Nitrite-IC - Dionex 4000i/4500	ug/g	103.0	<5.320e-1	2.01e+04	1.940e4	1.980e4	3.54	94.80	5.050e4	n/a
S95T000999		W	Nitrate by IC-Dionex4000i/4500	ug/g	99.58	<7.030e-1	2.03e+05	1.990e5	2.010e5	1.99	101.7	6.680e3	n/a
S95T000999		W	Phosphate-IC-Dionex 4000i/4500	ug/g	94.34	<5.720e-1	2.19e+04	2.200e4	2.200e4	0.46	88.80	5.430e3	n/a
S95T000999		W	Sulfate by IC-Dionex4000i/4500	ug/g	99.27	<6.970e-1	1.86e+04	1.810e4	1.840e4	2.72	93.50	6.620e3	n/a

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000853			% Water by TGA on Perkin Elmer	%	96.99	n/a	87.66	8.761e1	8.763e1	0.06	n/a	n/a	n/a
S95T000853			Specific Gravity	Sp.G.	95.06	n/a	1.039	1.032e0	1.035e0	0.68	n/a	1.000e-3	n/a
S95T000853			DSC Exotherm on Perkin Elmer	Joules/g	104.4	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000853			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000853			Alpha in Liquid Samples	uCi/mL	84.42	<4.110e-4	<6.95e-05	8.540e-5	n/a	n/a	87.50	8.450e-5	5.00E+02
S95T000854		D	Uranium by Phosphorescence	ug/mL	n/a	6.00e-03	1.16e-01	1.520e-1	1.340e-1	26.9	96.10	3.700e-5	n/a
S95T000854		D	Americium-241 by GEA	uCi/mL	n/a	<1.720e-3	<1.70e-02	<1.59e-2	n/a	n/a	n/a	2.000e-3	n/a
S95T000854		D	Cobalt-60 by GEA	uCi/mL	99.53	<2.680e-3	<2.75e-03	<2.93e-3	n/a	n/a	n/a	3.000e-3	n/a
S95T000854		D	Cesium-137 by GEA	uCi/mL	106.0	<6.080e-3	<6.68e-03	<6.80e-3	n/a	n/a	n/a	6.000e-3	n/a
S95T000854		D	Europium-154 by GEA	uCi/mL	n/a	<9.930e-3	<7.10e-03	<8.01e-3	n/a	n/a	n/a	1.000e-2	n/a
S95T000854		D	Europium-155 by GEA	uCi/mL	n/a	<7.780e-3	<7.57e-03	<7.70e-3	n/a	n/a	n/a	8.000e-3	n/a
S95T000854		D	Silver-ICP-Acid Dil.	ug/mL	99.77	2.00e-03	< 1.010	<1.0100	n/a	n/a	77.13	1.010	n/a
S95T000854		D	Aluminium-ICP-Acid Dil.	ug/mL	101.3	2.00e-03	< 5.050	<5.0500	n/a	n/a	96.97	5.050	n/a
S95T000854		D	Arsenic-ICP-Acid Dil.	ug/mL	104.1	-1.00e-2	< 5.050	<5.0500	n/a	n/a	5.000	5.050	n/a
S95T000854		D	Boron-ICP-Acid Dil.	ug/mL	101.3	1.40e-02	11.77	1.121e1	1.149e1	4.85	112.0	5.050	n/a
S95T000854		D	Barium-ICP-Acid Dil.	ug/mL	101.0	1.00e-04	< 5.050	<5.0500	n/a	n/a	95.34	5.050	n/a
S95T000854		D	Beryllium-ICP-Acid Dil.	ug/mL	105.1	3.00e-04	<5.05e-01	<0.5050	n/a	n/a	100.8	5.050e-1	n/a
S95T000854		D	Bismuth-ICP-Acid Dil.	ug/mL	103.8	6.10e-02	< 10.10	<10.1000	n/a	n/a	103.1	10.10	n/a
S95T000854		D	Calcium-ICP-Acid Dil.	ug/mL	101.8	-5.00e-3	< 10.10	<10.1000	n/a	n/a	101.3	10.10	n/a
S95T000854		D	Cadmium-ICP-Acid Dil.	ug/mL	103.0	-1.00e-3	< 1.010	<1.0100	n/a	n/a	98.50	1.010	n/a
S95T000854		D	Cerium-ICP-Acid Dil.	ug/mL	102.2	0.00e+00	< 10.10	<10.1000	n/a	n/a	102.2	10.10	n/a
S95T000854		D	Cobalt-ICP-Acid Dil.	ug/mL	103.7	-3.00e-4	< 2.020	<2.0200	n/a	n/a	101.2	2.020	n/a
S95T000854		D	Chromium-ICP-Acid Dil.	ug/mL	103.2	0.00e+00	16.40	1.660e1	1.650e1	1.19	115.8	1.010	n/a
S95T000854		D	Copper-ICP-Acid Dil.	ug/mL	103.3	0.00e+00	< 1.010	<1.0100	n/a	n/a	97.55	1.010	n/a
S95T000854		D	Iron-ICP-Acid Dil.	ug/mL	102.8	-2.00e-4	< 5.050	<5.0500	n/a	n/a	101.5	5.050	n/a
S95T000854		D	Potassium-ICP-Acid Dil.	ug/mL	96.88	-1.38e-1	< 30.30	<30.3000	n/a	n/a	135.4	30.30	n/a
S95T000854		D	Lanthanum-ICP-Acid Dil.	ug/mL	101.6	-1.00e-4	< 5.050	<5.0500	n/a	n/a	98.29	5.050	n/a
S95T000854		D	Lithium-ICP-Acid Dil.	ug/mL	101.8	-5.00e-4	1.55e+03	1.560e3	1.550e3	0.46	1.23e+03	1.010	n/a
S95T000854		D	Magnesium-ICP-Acid Dil.	ug/mL	101.3	-5.00e-3	< 10.10	<10.1000	n/a	n/a	91.06	10.10	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000854		D	Manganese-ICP-Acid Dil.	ug/mL	101.0	1.00e-04	< 1.010	<1.0100	n/a	n/a	96.40	1.010	n/a
S95T000854		D	Molybdenum-ICP-Acid Dil.	ug/mL	103.2	2.00e-03	< 5.050	<5.0500	n/a	n/a	102.0	5.050	n/a
S95T000854		D	Sodium-ICP-Acid Dil.	ug/mL	100.8	-2.00e-3	2.73e+04	2.740e4	2.740e4	0.36	0.00e+00	10.10	n/a
S95T000854		D	Neodymium-ICP-Acid Dil.	ug/mL	104.3	0.00e+00	< 10.10	<10.1000	n/a	n/a	100.8	10.10	n/a
S95T000854		D	Nickel-ICP-Acid Dil.	ug/mL	102.6	-2.00e-3	3.978	4.167e0	4.072e0	4.63	104.0	2.020	n/a
S95T000854		D	Phosphorus-ICP-Acid Dil.	ug/mL	107.9	2.30e-02	8.59e+02	8.598e2	8.596e2	0.04	722.9	20.20	n/a
S95T000854		D	Lead-ICP-Acid Dil.	ug/mL	102.9	-5.00e-3	< 10.10	<10.1000	n/a	n/a	104.4	10.10	n/a
S95T000854		D	Sulfer-ICP-Acid Dil.	ug/mL	103.5	-6.00e-3	1.67e+03	1.660e3	1.660e3	0.25	1.17e+03	5.050	n/a
S95T000854		D	Antimony-ICP-Acid Dil.	ug/mL	97.82	3.00e-04	< 20.20	<20.2000	n/a	n/a	92.30	20.20	n/a
S95T000854		D	Selenium-ICP-Acid Dil.	ug/mL	102.7	2.90e-02	< 10.10	<10.1000	n/a	n/a	105.4	10.10	n/a
S95T000854		D	Silicon-ICP-Acid Dil.	ug/mL	96.55	1.00e-03	9.974	1.005e1	1.001e1	0.74	110.4	5.050	n/a
S95T000854		D	Samarium-ICP-Acid Dil.	ug/mL	102.1	-7.00e-3	< 10.10	<10.1000	n/a	n/a	98.03	10.10	n/a
S95T000854		D	Strontium-ICP-Acid Dil.	ug/mL	100.1	0.00e+00	< 1.010	<1.0100	n/a	n/a	96.52	1.010	n/a
S95T000854		D	Titanium-ICP-Acid Dil.	ug/mL	99.39	-5.00e-4	< 1.010	<1.0100	n/a	n/a	95.65	1.010	n/a
S95T000854		D	Thallium-ICP-Acid Dil.	ug/mL	100.6	-1.40e-2	< 20.20	<20.2000	n/a	n/a	83.06	20.20	n/a
S95T000854		D	Uranium-ICP-Acid Dil.	ug/mL	101.3	-2.70e-2	75.19	7.540e1	7.530e1	0.27	138.2	40.40	n/a
S95T000854		D	Vanadium-ICP-Acid Dil.	ug/mL	101.5	-2.00e-3	< 5.050	<5.0500	n/a	n/a	98.43	5.050	n/a
S95T000854		D	Zinc-ICP-Acid Dil.	ug/mL	104.5	-3.00e-4	< 1.010	<1.0100	n/a	n/a	96.63	1.010	n/a
S95T000854		D	Zirconium-ICP-Acid Dil.	ug/mL	101.0	-2.00e-3	< 1.010	<1.0100	n/a	n/a	97.09	1.010	n/a
S95T001001		V	Bromide by Ion Chromatograph	ug/mL	91.10	<6.040e-1	2.17e+04	2.220e4	2.200e4	2.50	n/a	7.040e3	n/a
S95T001001		V	Chloride-IC-Dionex 4000i/4500	ug/mL	96.46	<8.300e-2	<8.38e+02	<8.38e2	n/a	n/a	n/a	838.0	n/a
S95T001001		V	Fluoride-IC-Dionex 4000i/4500	ug/mL	94.24	<6.000e-2	<6.26e+02	<6.26e2	n/a	n/a	n/a	626.0	n/a
S95T001001		V	Nitrite-IC - Dionex 4000i/4500	ug/mL	93.78	<5.000e-1	7.92e+03	8.060e3	7.990e3	1.75	n/a	5.370e3	n/a
S95T001001		V	Nitrate-IC - Dionex 4000i/4500	ug/mL	94.95	<7.030e-1	6.24e+04	6.210e4	6.220e4	0.48	n/a	6.100e3	n/a
S95T001001		V	Phosphate-IC-Dionex 4000i/4500	ug/mL	91.94	<5.000e-1	<7.10e+03	<7.10e3	n/a	n/a	n/a	7.100e3	n/a
S95T001001		V	Sulfate by IC-Dionex4000i/4500	ug/mL	92.87	<7.000e-1	6.37e+03	6.450e3	6.410e3	1.25	n/a	5.780e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 85
SEGMENT #: n/a

SEGMENT PORTION: Core Composite

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001468			% Water by TGA using Mettler	%	101.2	n/a	51.03	5.055e1	5.079e1	1.04	n/a	n/a	n/a
S95T001468			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
S95T001468			DSC Exotherm using Mettler	Joules/g	103.7	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S95T001468			Bulk Density of Sample	g/mL	n/a	n/a	1.500	n/a	n/a	n/a	n/a	5.000e-1	n/a
S95T001469	W		Bromide by Ion Chromatograph	ug/g	98.85	<6.320e-1	<2.71e+03	<2.71e3	n/a	n/a	78.50	2.710e3	n/a
S95T001469	W		Chloride-IC-Dionex 4000i/4500	ug/g	100.4	<8.300e-2	1.25e+03	1.200e3	1.220e3	4.08	88.10	352.0	n/a
S95T001469	W		Fluoride-IC-Dionex 4000i/4500	ug/g	105.1	<6.200e-2	<2.66e+02	<273.62	n/a	n/a	89.60	266.0	n/a
S95T001469	W		Nitrite-IC - Dionex 4000i/4500	ug/g	105.1	<5.470e-1	2.02e+04	2.010e4	2.020e4	0.50	91.90	2.350e3	n/a
S95T001469	W		Nitrate by IC-Dionex4000i/4500	ug/g	99.09	<6.990e-1	2.03e+05	2.030e5	2.030e5	0.00	72.90	3.000e3	n/a
S95T001469	W		Oxalate by IC - Dionex 4000i	ug/g	92.96	<4.690e-1	<2.13e+03	<2188.99	n/a	n/a	78.90	2.130e3	n/a
S95T001469	W		Phosphate-IC-Dionex 4000i/4500	ug/g	99.01	<5.960e-1	2.24e+04	2.230e4	2.240e4	0.45	87.80	2.440e3	n/a
S95T001469	W		Sulfate by IC-Dionex4000i/4500	ug/g	99.76	<6.780e-1	1.84e+04	1.820e4	1.830e4	1.09	85.30	2.910e3	n/a
S95T001470	I		Silver -ICP-H2O Dig/Acid	ug/g	98.47	2.00e-04	< 4.206	<4.3270	n/a	n/a	85.36	4.210	n/a
S95T001470	I		Aluminium -ICP-H2O Dig/Acid	ug/g	101.2	-1.00e-3	2.21e+02	2.094e2	2.154e2	5.56	98.81	21.00	n/a
S95T001470	I		Arsenic -ICP-H2O Dig/Acid	ug/g	104.1	2.20e-02	< 21.03	<21.6350	n/a	n/a	103.5	21.00	n/a
S95T001470	I		Boron -ICP-H2O Dig/Acid	ug/g	102.8	4.00e-03	29.69	2.967e1	2.968e1	0.05	100.1	21.00	n/a
S95T001470	I		Barium -ICP-H2O Dig/Acid	ug/g	101.7	2.00e-04	< 21.03	<21.6350	n/a	n/a	100.1	21.00	n/a
S95T001470	I		Beryllium -ICP-H2O Dig/Acid	ug/g	104.8	-1.00e-4	< 2.103	<2.1635	n/a	n/a	103.7	2.100	n/a
S95T001470	I		Bismuth -ICP-H2O Dig/Acid	ug/g	101.7	-9.00e-3	69.99	7.929e1	7.464e1	12.5	101.7	42.10	n/a
S95T001470	I		Calcium -ICP-H2O Dig/Acid	ug/g	103.2	4.00e-03	90.30	7.706e1	8.368e1	15.8	100.5	42.10	n/a
S95T001470	I		Cadmium -ICP-H2O Dig/Acid	ug/g	103.7	2.00e-03	< 4.206	<4.3270	n/a	n/a	104.2	4.210	n/a
S95T001470	I		Cerium -ICP-H2O Dig/Acid	ug/g	103.0	-1.00e-3	< 42.06	<43.2700	n/a	n/a	102.0	42.10	n/a
S95T001470	I		Cobalt -ICP-H2O Dig/Acid	ug/g	103.2	-2.00e-3	< 8.412	<8.6540	n/a	n/a	103.1	8.410	n/a
S95T001470	I		Chromium -ICP-H2O Dig/Acid	ug/g	104.0	1.00e-04	83.47	8.219e1	8.283e1	1.55	103.9	4.210	n/a
S95T001470	I		Copper -ICP-H2O Dig/Acid	ug/g	104.3	1.00e-03	< 4.206	<4.3270	n/a	n/a	102.6	4.210	n/a
S95T001470	I		Iron -ICP-H2O Dig/Acid	ug/g	103.9	2.00e-03	3.29e+03	3.240e3	3.260e3	1.59	88.21	21.00	n/a
S95T001470	I		Potassium -ICP-H2O Dig/Acid	ug/g	101.6	-1.66e-1	<1.26e+02	<129.810	n/a	n/a	104.2	126.0	n/a
S95T001470	I		Lanthanum -ICP-H2O Dig/Acid	ug/g	102.9	-3.00e-4	< 21.03	<21.6350	n/a	n/a	101.4	21.00	n/a
S95T001470	I		Lithium -ICP-H2O Dig/Acid	ug/g	101.5	1.00e-03	26.77	2.635e1	2.656e1	1.57	98.06	4.210	n/a
S95T001470	I		Magnesium -ICP-H2O Dig/Acid	ug/g	100.4	5.00e-03	57.95	5.895e1	5.845e1	1.71	99.27	42.10	n/a
S95T001470	I		Manganese -ICP-H2O Dig/Acid	ug/g	101.7	4.00e-04	17.06	1.681e1	1.693e1	1.45	99.11	4.210	n/a
S95T001470	I		Molybdenum -ICP-H2O Dig/Acid	ug/g	104.0	-2.00e-3	< 21.03	<21.6350	n/a	n/a	106.1	21.00	n/a
S95T001470	I		Sodium -ICP-H2O Dig/Acid	ug/g	100.9	2.92e-01	9.84e+04	9.600e4	9.720e4	2.56	121.3	42.10	n/a
S95T001470	I		Neodymium -ICP-H2O Dig/Acid	ug/g	105.6	-2.00e-3	< 42.06	<43.2700	n/a	n/a	104.5	42.10	n/a
S95T001470	I		Nickel -ICP-H2O Dig/Acid	ug/g	102.9	-5.00e-3	15.96	1.468e1	1.532e1	8.35	102.3	8.410	n/a
S95T001470	I		Phosphorus -ICP-H2O Dig/Acid	ug/g	102.8	8.00e-03	7.49e+03	7.470e3	7.480e3	0.30	99.86	84.10	n/a
S95T001470	I		Lead -ICP-H2O Dig/Acid	ug/g	103.0	1.00e-02	68.59	6.852e1	6.855e1	0.10	104.2	42.10	n/a
S95T001470	I		Sulfur -ICP-H2O Dig/Acid	ug/g	101.3	4.00e-03	6.59e+03	6.490e3	6.540e3	1.59	83.69	21.00	n/a
S95T001470	I		Antimony -ICP-H2O Dig/Acid	ug/g	97.21	-7.00e-3	< 84.12	<86.5400	n/a	n/a	97.45	84.10	n/a
S95T001470	I		Selenium -ICP-H2O Dig/Acid	ug/g	101.5	1.70e-02	< 42.06	<43.2700	n/a	n/a	82.23	42.10	n/a
S95T001470	I		Silicon -ICP-H2O Dig/Acid	ug/g	98.41	6.70e-02	91.04	9.080e1	9.092e1	0.27	98.80	21.00	n/a
S95T001470	I		Samarium -ICP-H2O Dig/Acid	ug/g	103.1	1.10e-02	< 42.06	<43.2700	n/a	n/a	101.3	42.10	n/a
S95T001470	I		Strontium -ICP-H2O Dig/Acid	ug/g	100.7	5.00e-04	43.87	4.275e1	4.331e1	2.59	98.65	4.210	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001470		I	Titanium-ICP-H2O Dig/Acid	ug/g	99.89	2.00e-04	< 4.206	<4.3270	n/a	n/a	99.46	4.210	n/a
S95T001470		I	Thallium -ICP-H2O Dig/Acid	ug/g	100.4	-5.00e-3	< 84.12	<86.5400	n/a	n/a	101.1	84.10	n/a
S95T001470		I	Uranium -ICP-H2O Dig/Acid	ug/g	102.3	4.20e-02	4.75e+02	4.624e2	4.688e2	2.74	98.75	168.0	n/a
S95T001470		I	Vanadium -ICP-H2O Dig/Acid	ug/g	103.1	3.00e-03	< 21.03	<21.6350	n/a	n/a	102.9	21.00	n/a
S95T001470		I	Zinc -ICP-H2O Dig/Acid	ug/g	103.3	2.00e-03	33.42	3.136e1	3.239e1	6.36	103.9	4.210	n/a
S95T001470		I	Zirconium -ICP-H2O Dig/Acid	ug/g	102.0	1.00e-03	< 4.206	<4.3270	n/a	n/a	100.8	4.210	n/a
S95T001471		F	Alpha of Digested Solid	uCi/g	105.1	<1.060e-2	2.58e-02	2.740e-2	2.660e-2	6.02	93.90	2.500e-2	69.3
S95T001471		F	Beta of Solid Sample	uCi/g	105.0	1.23e-01	3.24e+02	3.160e2	3.200e2	2.50	101.9	1.760e-1	0.5
S95T001471		F	Americium-241 by GEA	uCi/g	n/a	1.590	< 2.13+0	<2.24e+0	n/a	n/a	n/a	1.590	n/a
S95T001471		F	Cobalt-60 by GEA	uCi/g	101.2	2.54e-01	<2.21e-01	<2.72e-1	n/a	n/a	n/a	2.540e-1	n/a
S95T001471		F	Cesium-137 by GEA	uCi/g	98.06	3.07e-01	13.90	1.320e1	1.355e1	5.17	n/a	3.070e-1	6.15
S95T001471		F	Europium-154 by GEA	uCi/g	n/a	5.15e-01	<6.18e-01	<6.67e-1	n/a	n/a	n/a	5.150e-1	n/a
S95T001471		F	Europium-155 by GEA	uCi/g	n/a	4.41e-01	<7.57e-01	<6.75e-1	n/a	n/a	n/a	4.410e-1	n/a
S95T001471		F	Silver -ICP-Fusion	ug/g	98.20	1.00e-03	<3.93e+02	<386.501	n/a	n/a	84.15	393.0	n/a
S95T001471		F	Aluminium -ICP-Fusion	ug/g	101.3	-1.00e-3	2.12e+03	2.390e3	2.260e3	11.9	94.38	1.960e3	n/a
S95T001471		F	Arsenic -ICP-Fusion	ug/g	103.1	-1.30e-2	<1.96e+03	<1932.50	n/a	n/a	98.53	1.960e3	n/a
S95T001471		F	Boron -ICP-Fusion	ug/g	103.0	6.00e-03	<1.96e+03	<1932.50	n/a	n/a	94.62	1.960e3	n/a
S95T001471		F	Barium -ICP-Fusion	ug/g	101.7	1.00e-03	<1.96e+03	<1932.50	n/a	n/a	90.98	1.960e3	n/a
S95T001471		F	Beryllium -ICP-Fusion	ug/g	104.6	0.00e+00	<1.96e+02	<193.250	n/a	n/a	96.90	196.0	n/a
S95T001471		F	Bismuth -ICP-Fusion	ug/g	101.2	1.60e-02	<3.93e+03	<3865.01	n/a	n/a	98.73	3.930e3	n/a
S95T001471		F	Calcium -ICP-Fusion	ug/g	102.5	7.30e-02	5.90e+03	5.310e3	5.610e3	10.6	97.32	3.930e3	n/a
S95T001471		F	Cadmium -ICP-Fusion	ug/g	103.4	-1.00e-3	<3.93e+02	<386.501	n/a	n/a	98.73	393.0	n/a
S95T001471		F	Cerium -ICP-Fusion	ug/g	103.6	-2.00e-3	<3.93e+03	<3865.01	n/a	n/a	94.19	3.930e3	n/a
S95T001471		F	Cobalt -ICP-Fusion	ug/g	103.2	1.00e-03	<7.86e+02	<773.002	n/a	n/a	98.17	786.0	n/a
S95T001471		F	Chromium -ICP-Fusion	ug/g	103.8	1.00e-03	<3.93e+02	<386.501	n/a	n/a	99.30	393.0	n/a
S95T001471		F	Copper -ICP-Fusion	ug/g	104.3	1.00e-03	<3.93e+02	<386.501	n/a	n/a	95.28	393.0	n/a
S95T001471		F	Iron -ICP-Fusion	ug/g	103.7	7.00e-03	2.26e+04	2.250e4	2.250e4	0.39	98.51	1.960e3	n/a
S95T001471		F	Lanthanum -ICP-Fusion	ug/g	103.0	0.00e+00	<1.96e+03	<1932.50	n/a	n/a	93.67	1.960e3	n/a
S95T001471		F	Lithium -ICP-Fusion	ug/g	102.3	2.00e-03	<3.93e+02	<386.501	n/a	n/a	90.70	393.0	n/a
S95T001471		F	Magnesium -ICP-Fusion	ug/g	100.0	1.30e-02	<3.93e+03	<3865.01	n/a	n/a	94.48	3.930e3	n/a
S95T001471		F	Manganese -ICP-Fusion	ug/g	101.7	1.00e-03	<3.93e+02	<386.501	n/a	n/a	94.23	393.0	n/a
S95T001471		F	Molybdenum -ICP-Fusion	ug/g	103.7	1.00e-04	<1.96e+03	<1932.50	n/a	n/a	98.70	1.960e3	n/a
S95T001471		F	Sodium -ICP-Fusion	ug/g	101.5	1.45e-01	1.14e+05	1.150e5	1.150e5	0.35	94.94	3.930e3	n/a
S95T001471		F	Neodymium -ICP-Fusion	ug/g	105.6	3.00e-03	<3.93e+03	<3865.01	n/a	n/a	95.67	3.930e3	n/a
S95T001471		F	Nickel -ICP-Fusion	ug/g	103.2	2.15e-01	7.56e+03	9.030e3	8.300e3	17.7	97.83	786.0	n/a
S95T001471		F	Phosphorus -ICP-Fusion	ug/g	103.1	1.40e-02	2.14e+04	2.230e4	2.180e4	4.47	98.45	7.860e3	n/a
S95T001471		F	Lead -ICP-Fusion	ug/g	102.8	-1.00e-4	<3.93e+03	<3865.01	n/a	n/a	99.95	3.930e3	n/a
S95T001471		F	Sulfur -ICP-Fusion	ug/g	101.8	1.50e-02	6.98e+03	7.110e3	7.040e3	1.94	96.76	1.960e3	n/a
S95T001471		F	Antimony -ICP-Fusion	ug/g	97.01	-4.00e-3	<7.86e+03	<7730.02	n/a	n/a	91.96	7.860e3	n/a
S95T001471		F	Selenium -ICP-Fusion	ug/g	101.6	1.50e-02	<3.93e+03	<3865.01	n/a	n/a	98.71	3.930e3	n/a
S95T001471		F	Silicon -ICP-Fusion	ug/g	98.52	1.80e-02	<1.96e+03	<1932.50	n/a	n/a	98.17	1.960e3	n/a
S95T001471		F	Samarium -ICP-Fusion	ug/g	103.4	2.00e-02	<3.93e+03	<3865.01	n/a	n/a	95.06	3.930e3	n/a
S95T001471		F	Strontium -ICP-Fusion	ug/g	100.7	4.00e-04	6.08e+02	6.119e2	6.099e2	0.65	91.64	393.0	n/a
S95T001471		F	Titanium-ICP-Fusion	ug/g	98.91	0.00e+00	<3.93e+02	<386.501	n/a	n/a	92.73	393.0	n/a
S95T001471		F	Thallium -ICP-Fusion	ug/g	99.75	1.10e-02	<7.86e+03	<7730.02	n/a	n/a	90.46	7.860e3	n/a
S95T001471		F	Uranium -ICP-Fusion	ug/g	102.6	-4.10e-2	1.64e+04	1.580e4	1.610e4	3.74	92.04	1.570e4	n/a
S95T001471		F	Vanadium -ICP-Fusion	ug/g	103.0	4.00e-03	<1.96e+03	<1932.50	n/a	n/a	97.20	1.960e3	n/a
S95T001471		F	Zinc -ICP-Fusion	ug/g	102.8	2.10e-02	1.02e+03	1.010e3	1.020e3	1.25	98.73	393.0	n/a
S95T001471		F	Zirconium -ICP-Fusion	ug/g	102.0	3.00e-03	<3.93e+02	<386.501	n/a	n/a	94.56	393.0	n/a
S95T001471		F	Strontium-89/90 High Level	uCi/g	96.33	<9.640e-2	1.77e+02	1.730e2	1.750e2	2.29	n/a	1.000e-1	7.02E-01

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001471		F	Uranium by Phosphorescence	ug/g	99.64	3.320	1.85e+04	1.870e4	1.860e4	1.08	74.66	3.550e-1	3.18E+00
S95T002283			TOC by Persulfate/Coulometry	ug/g	94.67	24.80	4.26e+02	4.540e2	4.400e2	6.36	94.30	80.00	n/a

Hydrostatic Head Fluid: Hydrostatic Head Fluid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000816		D	Lithium-ICP-Acid Dil.	ug/mL	98.70	1.00e-04	1.91e+03	1.910e3	1.910e3	0.00	99.42	1.000e-1	n/a
S95T000816			Bromide by Ion Chromatograph	ug/mL	99.01	<8.000e-1	2.34e+04	2.380e4	2.360e4	1.69	102.5	1.700e3	n/a

FINAL REPORT FOR TANK
BX-109

CORE NUMBER: 85
SEGMENT #: Field Blank

SEGMENT PORTION: n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000856			% Water by TGA using Mettler	%	100.3	n/a	97.45	9.976e1	9.861e1	2.34	n/a	n/a	n/a
S95T000856			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000856			DSC Exotherm using Mettler	Joules/g	105.4	n/a	0.00e+00	0.000e0	0.000e0	n/a	n/a	n/a	n/a
S95T000857		D	Silver-ICP-Acid Dil.	ug/mL	99.77	2.00e-03	<1.00e-01	<0.1000	n/a	n/a	96.64	1.000e-1	n/a
S95T000857		D	Aluminium-ICP-Acid Dil.	ug/mL	101.3	2.00e-03	<5.00e-01	<0.5000	n/a	n/a	100.0	5.000e-1	n/a
S95T000857		D	Arsenic-ICP-Acid Dil.	ug/mL	104.1	-1.00e-2	<5.00e-01	<0.5000	n/a	n/a	102.9	5.000e-1	n/a
S95T000857		D	Boron-ICP-Acid Dil.	ug/mL	101.3	1.40e-02	2.433	2.484e0	2.459e0	2.04	124.4	5.000e-1	n/a
S95T000857		D	Barium-ICP-Acid Dil.	ug/mL	101.0	1.00e-04	<5.00e-01	<0.5000	n/a	n/a	99.21	5.000e-1	n/a
S95T000857		D	Beryllium-ICP-Acid Dil.	ug/mL	105.1	3.00e-04	<5.00e-02	<0.0500	n/a	n/a	104.0	5.000e-2	n/a
S95T000857		D	Bismuth-ICP-Acid Dil.	ug/mL	103.8	6.10e-02	< 1.000	<1.0000	n/a	n/a	104.4	1.000	n/a
S95T000857		D	Calcium-ICP-Acid Dil.	ug/mL	101.8	-5.00e-3	1.165	1.155e0	1.160e0	0.88	115.3	1.000	n/a
S95T000857		D	Cadmium-ICP-Acid Dil.	ug/mL	103.0	-1.00e-3	<1.00e-01	<0.1000	n/a	n/a	103.7	1.000e-1	n/a
S95T000857		D	Cerium-ICP-Acid Dil.	ug/mL	102.2	0.00e+00	< 1.000	<1.0000	n/a	n/a	102.8	1.000	n/a
S95T000857		D	Cobalt-ICP-Acid Dil.	ug/mL	103.7	-3.00e-4	<2.00e-01	<0.2000	n/a	n/a	105.2	2.000e-1	n/a
S95T000857		D	Chromium-ICP-Acid Dil.	ug/mL	103.2	0.00e+00	<1.00e-01	<0.1000	n/a	n/a	105.2	1.000e-1	n/a
S95T000857		D	Copper-ICP-Acid Dil.	ug/mL	103.3	0.00e+00	<1.00e-01	<0.1000	n/a	n/a	101.1	1.000e-1	n/a
S95T000857		D	Iron-ICP-Acid Dil.	ug/mL	102.8	-2.00e-4	<5.00e-01	<0.5000	n/a	n/a	105.4	5.000e-1	n/a
S95T000857		D	Potassium-ICP-Acid Dil.	ug/mL	96.88	-1.38e-1	< 3.000	<3.0000	n/a	n/a	101.6	3.000	n/a
S95T000857		D	Lanthanum-ICP-Acid Dil.	ug/mL	101.6	-1.00e-4	<5.00e-01	<0.5000	n/a	n/a	102.4	5.000e-1	n/a
S95T000857		D	Lithium-ICP-Acid Dil.	ug/mL	101.8	-5.00e-4	<1.00e-01	<0.1000	n/a	n/a	99.81	1.000e-1	n/a
S95T000857		D	Magnesium-ICP-Acid Dil.	ug/mL	101.3	-5.00e-3	< 1.000	<1.0000	n/a	n/a	100.6	1.000	n/a
S95T000857		D	Manganese-ICP-Acid Dil.	ug/mL	101.0	1.00e-04	<1.00e-01	<0.1000	n/a	n/a	100.2	1.000e-1	n/a
S95T000857		D	Molybdenum-ICP-Acid Dil.	ug/mL	103.2	2.00e-03	<5.00e-01	<0.5000	n/a	n/a	103.0	5.000e-1	n/a
S95T000857		D	Sodium-ICP-Acid Dil.	ug/mL	100.8	-2.00e-3	6.758	6.802e0	6.780e0	0.65	169.1	1.000	n/a
S95T000857		D	Neodymium-ICP-Acid Dil.	ug/mL	104.3	0.00e+00	< 1.000	<1.0000	n/a	n/a	104.6	1.000	n/a
S95T000857		D	Nickel-ICP-Acid Dil.	ug/mL	102.6	-2.00e-3	<2.00e-01	<0.2000	n/a	n/a	103.3	2.000e-1	n/a
S95T000857		D	Phosphorus-ICP-Acid Dil.	ug/mL	107.9	2.30e-02	< 2.000	<2.0000	n/a	n/a	106.9	2.000	n/a
S95T000857		D	Lead-ICP-Acid Dil.	ug/mL	102.9	-5.00e-3	< 1.000	<1.0000	n/a	n/a	104.2	1.000	n/a
S95T000857		D	Sulfer-ICP-Acid Dil.	ug/mL	103.5	-6.00e-3	2.220	2.046e0	2.133e0	8.15	123.6	5.000e-1	n/a
S95T000857		D	Antimony-ICP-Acid Dil.	ug/mL	97.82	3.00e-04	< 2.000	<2.0000	n/a	n/a	94.28	2.000	n/a
S95T000857		D	Selenium-ICP-Acid Dil.	ug/mL	102.7	2.90e-02	< 1.000	<1.0000	n/a	n/a	102.0	1.000	n/a
S95T000857		D	Silicon-ICP-Acid Dil.	ug/mL	96.55	1.00e-03	5.866	5.947e0	5.907e0	1.36	159.8	5.000e-1	n/a
S95T000857		D	Samarium-ICP-Acid Dil.	ug/mL	102.1	-7.00e-3	< 1.000	<1.0000	n/a	n/a	102.0	1.000	n/a
S95T000857		D	Strontium-ICP-Acid Dil.	ug/mL	100.1	0.00e+00	<1.00e-01	<0.1000	n/a	n/a	100.2	1.000e-1	n/a
S95T000857		D	Titanium-ICP-Acid Dil.	ug/mL	99.39	-5.00e-4	<1.00e-01	<0.1000	n/a	n/a	98.95	1.000e-1	n/a
S95T000857		D	Thallium-ICP-Acid Dil.	ug/mL	100.6	-1.40e-2	< 2.000	<2.0000	n/a	n/a	97.10	2.000	n/a
S95T000857		D	Uranium-ICP-Acid Dil.	ug/mL	101.3	-2.70e-2	< 4.000	<4.0000	n/a	n/a	201.9	4.000	n/a
S95T000857		D	Vanadium-ICP-Acid Dil.	ug/mL	101.5	-2.00e-3	<5.00e-01	<0.5000	n/a	n/a	101.3	5.000e-1	n/a
S95T000857		D	Zinc-ICP-Acid Dil.	ug/mL	104.5	-3.00e-4	2.87e-01	3.190e-1	3.030e-1	10.5	102.8	1.000e-1	n/a
S95T000857		D	Zirconium-ICP-Acid Dil.	ug/mL	101.0	-2.00e-3	<1.00e-01	<0.1000	n/a	n/a	100.1	1.000e-1	n/a

CHAIN OF CUSTODY FORMS

THIS PAGE WAS INTENTIONALLY LEFT BLANK

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number SP-95-013 (2) Sample Number 95-073 (3) Supervisor D.E. Melville

(4) Tank 241-BX-109 (5) Riser 6 (6) Segment 1 (7) Core 94 (8) Cask Serial Number SN 1057

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5	<.5
Side Dose Rate	1	1.3
Bottom Dose Rate	<0.5	<.5
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	<1K (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-161 /0
B. Cask Seal Number	2792
C. Sampler Serial Number	94-133
D. Date and Time Sampler Unseated	4-4-95, 11:18
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	80 mR
H. Expected Sample Length	11.25"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

Characterize per WHC-SD-WM-TD-338

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin: 241 BX	(14) Destination: 2225	(18) Sender Name (Sign and PRINT): DA KRAHN	(16) Date/Time: 4/6/95 1155	(17) Sender Comments
(19) Relinquished By (Sign and PRINT): DA KRAHN		(20) Received By (Sign and PRINT): S Gentle S GENTLE	(21) Date/Time: 1156 4-6-95	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT): S Gentle S Gentle		(24) Received By (Sign and PRINT): EE Dukes	(25) Date/Time: 4-6-95 1300	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(32) Seal Data Consistent with this Record?							
(15) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	Shipment No.		Cask Seal No.		Sample No.	
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes	☐ No	☒ Yes	☐ No	☒ Yes	☐ No

Yellow - Receiving Sample Pink - Core Sampling, S6-85 Goldenrod - Tank Farm Operations, S4-43

BC-6000-309 (02/9

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

+++ LAB DATA HUB TESTINHOUSE 6282 J/F ROUTE 04/06/95 12:43

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-013 (2) Sample Number 95-074 (3) Supervisor D.E. Melville

(4) Tank 241-BX-109 (5) Riser 6 (6) Segment 2 (7) Core 84 (8) Cask Serial Number 1003 C

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	20.5	1.5
Side Dose Rate	2	2.5
Bottom Dose Rate	20.5	1.5
Smearable Contamination	<30 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	N/A (Beta-Gamma)
RCT* (HPT)	(Signature)	(Signature)

(10) Shipment Description

A. Work Package Number	ES-95-161/0
B. Cask Seal Number	2793
C. Sampler Serial Number	94-148
D. Date and Time Sampler Uncoated	4-5-95, 10:15
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	80 mR
H. Expected Sample Length	19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

Characterize per WHC-SD-WM-TP-338

49

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin: 241 BX	(14) Destination: 2225	(15) Sender Name (Sign and PRINT): DA Krahn DA KRAHN	(16) Date/Time: 4-6-95/1156	(17) Sender Comments
(19) Relinquished By (Sign and PRINT): DA Krahn DA Krahn		(20) Received By (Sign and PRINT): SGentle SGENTLE	(21) Date/Time: 4-6-95/1156	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT): SGentle SGENTLE		(24) Received By (Sign and PRINT): EEDykes EEDykes	(25) Date/Time: 4-6-95 1205	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-014 (2) Sample Number 95-075 (3) Supervisor D. E. Melville

(4) Tank 241-SX-109 (5) Riser 6 (6) Segment 3 (7) Core 84 (8) Cask Serial Number W 1033

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5	<.5
Side Dose Rate	2	2
Bottom Dose Rate	<0.5	<.5
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	A1K (Beta-Gamma)
RCT* (HPT)	JM Brewer (Signature)	RCT* (HPT) D L Lamb (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00161/0
B. Cask Seal Number	2794
C. Sampler Serial Number	94-121
D. Date and Time Sampler Unsealed	4-5-95, 11136
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	110 mR
H. Expected Sample Length	19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

characterize per WHC-SD-WM-TP-338

50

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin: 241-B	(14) Destination: 2225	(15) Sender Name (Sign and PRINT): DA Krahn DAKRAHN	(16) Date/Time: 4-6-95 1115	(17) Sender Comments
(19) Relinquished By (Sign and PRINT): DA Krahn DAKRAHN / S Gentle SGENTLE		(20) Received By (Sign and PRINT): S Gentle SGENTLE	(21) Date/Time: 4-6-95 1416	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT): S Gentle SGENTLE		(24) Received By (Sign and PRINT): Raymond Akins / R AKINS	(25) Date/Time: 4/6/95 1440	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT).	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

(32) Seal Data Consistent with this Record?

Shipment No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number: SP-95-013 (2) Sample Number: 95-076 (3) Supervisor: D.E. McVille

(4) Tank: 241-BX-109 (5) Riser: 6 (6) Segment: 4 (7) Core: 84 (8) Cask Serial Number: C1031

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	20.5	2.5
Side Dose Rate	1.5	2
Bottom Dose Rate	20.5	2.5
Smearable Contamination (Alpha)	220	2
(Beta-Gamma)	21K	2
RCT* (HPT) (Signature)	JA Brewer	LD Harris

(10) Shipment Description

A. Work Package Number	ES-95-161/0
B. Cask Seal Number	2795
C. Sampler Serial Number	94-140
D. Date and Time Sampler Unsealed	4-5-95, 1347
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	100 mR
H. Expected Sample Length	17.5'

(11) INFORMATION (Include statement of laboratory tests to be performed.)

Characterize per WHC-SD-WM-TD-338

CT

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin: 241 BX	(14) Destination: 2225	(15) Sender Name (Sign and PRINT): DAKrahn DA KRAHN	(16) Date/Time: 4-6-95 1155	(17) Sender Comments
(19) Relinquished By (Sign and PRINT): DAKrahn DA KRAHN		(20) Received By (Sign and PRINT): SGentle SGENTLE	(21) Date/Time: 4-6-95 1156	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT): SGentle SGENTLE		(24) Received By (Sign and PRINT): EEDuber EE Dubes	(25) Date/Time: 4-6-95 1305	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

BC-6000-309 (02/

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

Shipment Number SP-95-015 (2) Sample Number 95-077 (3) Supervisor W. C. Jones

Tank BX-109 (5) Riser 2 (6) Segment 001 (7) Core 95 (8) Cask Serial Number ~~5A~~ C-1036

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Liner Top Dose Rate	<0.5	<.5
Side Dose Rate	1.5	1
Bottom Dose Rate	<0.5	1.5
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	<1K (Beta-Gamma)
	RCT* (HPT) G M Brewer (Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00016
B. Cask Seal Number	1711
C. Sampler Serial Number	94-206
D. Date and Time Sampler Unseated	4-6-95 / 19:45
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	70 MR/HR
H. Expected Sample Length	19"

) INFORMATION (Include statement of laboratory tests to be performed.)

Preform Test Per WHC-SD-WM-TP-338

) Field Comments

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
241-BX	222-S	Blinn L Hall Blinn L Hall	4-7-95 10:18	None
) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
Blinn L Hall Blinn L Hall			4-7-95 10:18	
) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
Lubold D Helms Lubold D Helms		M. LAPIERS	4-7-95 1100	
) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

TRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, 56-85 Goldenrod - Tank Farm Operations, 64-43 BC-6000-309 (02/94)

WHC-SD-WM-DP-154, REV. C

BEST AVAILABLE COPY

04/07/95 11:38 ☎509 372 2929 WESTINGHOUSE +++ LAB DATA MGMT ☑001

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

Shipment Number SP-95-015 (2) Sample Number 95-078 (3) Supervisor M.C. Jones

Tank BX-109 (5) Riser 2 (6) Segment 002 (7) Core 85 (8) Cask Serial Number C-1030

liction Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5	<1.5
Side Dose Rate	1.6	1.6
Bottom Dose Rate	<0.5	<1.5
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	<1K (Beta-Gamma)
	RCT* (HPT) (Signature)	RCT* (HPT) (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-00016I
B. Cask Seal Number	1752
C. Sampler Serial Number	94-138
D. Date and Time Sampler Unseated	4-6-95/20:30
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	20 MR/HR
H. Expected Sample Length	19"

) INFORMATION (Include statement of laboratory tests to be performed.)

Pre Form TEST Per WHC-SP-WM-TP-338

) Field Comments	(34) Laboratory Comments

) Point of Origin 241-BX	(14) Destination 222-S	(15) Sender Name (Sign and PRINT) Blinn L Hall Blinn L Hall	(16) Date/Time 4-7-95 10:17	(17) Sender Comments None
) Relinquished By (Sign and PRINT) Blinn L Hall Blinn L. Hall		(20) Received By (Sign and PRINT) C.E. Byrd	(21) Date/Time 4-7-95 10:17	(22) Receiver Comments
) Relinquished By (Sign and PRINT) Jubal D Helms Jubal D Helms		(24) Received By (Sign and PRINT) N. LAPIERS	(25) Date/Time 4-7-95 1100	(26) Receiver Comments
) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

TRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, S6-85 Goldenrod - Tank Farm Operations, S4-43 BC-6000-309 (02/94)

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

04/07/95 11:38 ☎509 372 2929 WESTINGHOUSE LAB DATA MGMT ☑002

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number: SP-95-016 (2) Sample Number: 95-079 (3) Supervisor: Blinn L Hall

(4) Tank: 109-BX (5) Riser: 2 (6) Segment: 3 (7) Core: 085 (8) Cask Serial Number: C-1041

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<.5mR/hr	<0.5 mR/h
Side Dose Rate	2mR/hr	2 mR/h
Bottom Dose Rate	.6mR/hr	0.6 mR/h
Smearable Contamination (Alpha)	<20 dpm/100cm²	<20 dpm/100 cm² (Alpha)
(Beta-Gamma)	<1K dpm/100cm²	<1K dpm/100 cm² (Beta-Gamma)
RCT (HPT) (Signature)		RCT (HPT) (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-0016 1/0
B. Cask Seal Number	1245
C. Sampler Serial Number	94-147
D. Date and Time Sampler Unseated	4-11-95 10:09AM
E. Expected Liquid Content	30%
F. Expected Solid Content	70% sludge
G. Dose Rate Through Drill String	200 MR
H. Expected Sample Length	19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

Lithium Bromide .3 molar used for hydrostatic head fluid

C7 4

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
109-BX	222-S	Blinn L Hall Blinn L Hall	4-11-95 10:07AM	N/A
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
Blinn L Hall Blinn L Hall		Carl Boyd	4-13-95 10:07	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time 1135	(26) Receiver Comments
Suzanne Gentle SGENTLE		N LAPIERS	4-13-95	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, 88-85 Goldenrod - Tank Farm Operations, 54-43

BC-6000-309 (02/94)

WHC-SD-WM-DP-154 REV 0

BEST AVAILABLE COPY

WESTINGHOUSE ↔ LAB DATA NOW

0309 372 2929 12:52 04/13/95

0004 +++ LAB DATA MGMT WESTINGHOUSE 509 372 2929 04/13/95 12:54

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number: SD-95-016 (2) Sample Number: 95-080 (3) Supervisor: Blinn L Hall

(4) Tank: 109-BX (5) Riser: 2 (6) Segment: 4 (7) Core: 085 (8) Cask Serial Number: C-1023

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<.5 mR/hr	<0.5 mR/h
Side Dose Rate	3mR/hr	3mR/h
Bottom Dose Rate	.7mR/hr	.7 mR/h
Smearable Contamination	<20 dpm/100cm² (Alpha)	<20 dpm/100cm² (Alpha)
	<1K dpm/100cm² (Beta-Gamma)	<1K dpm/100cm² (Beta-Gamma)
	RCT (HPT) (Signature)	RCT (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00161/0
B. Cask Seal Number	1246
C. Sampler Serial Number	98-198
D. Date and Time Sampler Unseated	4-11-95 10:16AM
E. Expected Liquid Content	30%
F. Expected Solid Content	70% Sludge
G. Dose Rate Through Drill String	80 MR
H. Expected Sample Length	16¼"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

SS

(12) Field Comments: Lithium Bromide .3 molar used for hydrostatic head fluid

(34) Laboratory Comments

(13) Point of Origin: 109-BX	(14) Destination: 222-S	(15) Sender Name (Sign and PRINT): Blinn L Hall, Blinn L Hall	(16) Date/Time: 4-13-95 10:05AM	(17) Sender Comments: N/A
(19) Relinquished By (Sign and PRINT): Blinn L Hall, Blinn L Hall		(20) Received By (Sign and PRINT): Charles Bert Caldwell	(21) Date/Time: 4-13-95 1008	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT): Suzanne Gentle SGENTLE		(24) Received By (Sign and PRINT): N Lapiers N. LAPIERS	(25) Date/Time: 4-13-95 1135	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, 58-65 Goldenrod - Tank Farm Operations, 84-43

BC-6000-309 (02/94)

WHC-SD-WM-DP-154 REV C

BEST AVAILABLE COPY

COPY

CHAIN OF CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number: SP-95-016 (2) Sample Number: Field Blank (3) Supervisor: Blinn L Hall

(4) Tank: 109-BX (5) Riser: 2 (6) Segment: N/A (7) Core: 085 (8) Cask Serial Number: C-1046

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<.5mR/hr	<.5mR/L
Side Dose Rate	<.5mR/hr	<.5mR/L
Bottom Dose Rate	<.5mR/hr	<.5mR/L
Smearable Contamination	<20 dpm/100cm² (Alpha)	<20 dpm/100cm² (Alpha)
	<1K dpm/100cm² (Beta-Gamma)	<1K dpm/100cm² (Beta-Gamma)
	RCT (HPT) J Wolach (Signature)	RCT (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00161/0
B. Cask Seal Number	1238
C. Sampler Serial Number	94-126
D. Date and Time Sampler Unsealed	N/A
E. Expected Liquid Content	100%
F. Expected Solid Content	0%
G. Dose Rate Through Drill String	N/A
H. Expected Sample Length	19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

(12) Field Comments: Field Blank with deionized water Prepared — 4-13-95 9100 AM

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
109-BX	222-S	Blinn L Hall Blinn L Hall	4-13-95 1000 AM	N/A
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
Blinn L Hall Blinn L Hall		[illegible]	4-13-95 1016	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
Suzanne Gentle SGENTLE		N Lapiers N. LAPIERS	4-13-95 1135	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, 56-85 Goldenrod - Tank Farm Operations, 84-43

HC-6000-309 (02/94)

BEST AVAILABLE COPY

WESTINGHOUSE LAB DATA MGMT 509 372 2929 04/13/95 12:51 002

WHC-SD-WM-DP-154, RE

COPY

CHAIN OF CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number: SP-95-016 (2) Sample Number: N/A (3) Supervisor: Blinn L Hall

(4) Tank: 109-BX (5) Riser: N/A (6) Segment: N/A (7) Core: 085 (8) Cask Serial Number: N/A

Radiation Survey Data:	(9) FIELD	(23) LABORATORY
Over Top Dose Rate	<5mR/hr	<0.5 mR/hr
Side Dose Rate	<5mR/hr	<0.5 mR/hr
Bottom Dose Rate	<5mR/hr	<0.5 mR/hr
Smearable Contamination	<20 dpm/100cm² (Alpha)	x 20 dpm/100 cm² (Alpha)
	<1K dpm/100cm² (Beta-Gamma)	<1K dpm/100 cm² (Beta-Gamma)
	RCT or IHPT: (Signature)	RCT or IHPT: (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00161/0
B. Cask Seal Number	N/A
C. Sampler Serial Number	N/A
D. Date and Time Sampler Uncapped	N/A
E. Expected Liquid Content	N/A
F. Expected Solid Content	N/A
G. Dose Rate Through Drill String	N/A
H. Expected Sample Length	N/A

(11) INFORMATION (Include statement of laboratory tests to be performed.)

57

(12) Field Comments: 100 ML Bottle of (Lithium Bromide . 3 molar) used for Hydrostatic head fluid, 4-11-95 Bottle seal number- 1247

(24) Laboratory Comments:

(13) Point of Origin: 109-BX	(14) Destination: 222-S	(15) Sender Name (Sign and PRINT): Blinn L Hall	(16) Date/Time: 4-13-95 1100 hrs.	(17) Sender Comments: N/A
(18) Relinquished By (Sign and PRINT): Blinn L Hall Blinn L Hall		(20) Received By (Sign and PRINT): [illegible]	(21) Date/Time: 4/13/95 10:27	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT): Suzanne Suttle SGENTLE		(24) Received By (Sign and PRINT): N. LAPIERS	(25) Date/Time: 4-13-95 1133	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(30) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management; Yellow - Recipient of Sample; Pink - Core Sampling, S6-35; Goldenrod - Tank Farm Operations, S4-43

BC-6000-309 (02/94)

BEST AVAILABLE COPY
WHC-SD-WM-DP-154, RE

001 LAB DATA MGMT WESTINGHOUSE 509 372 2929 01/13/95 12:50

PHOTOGRAPHS

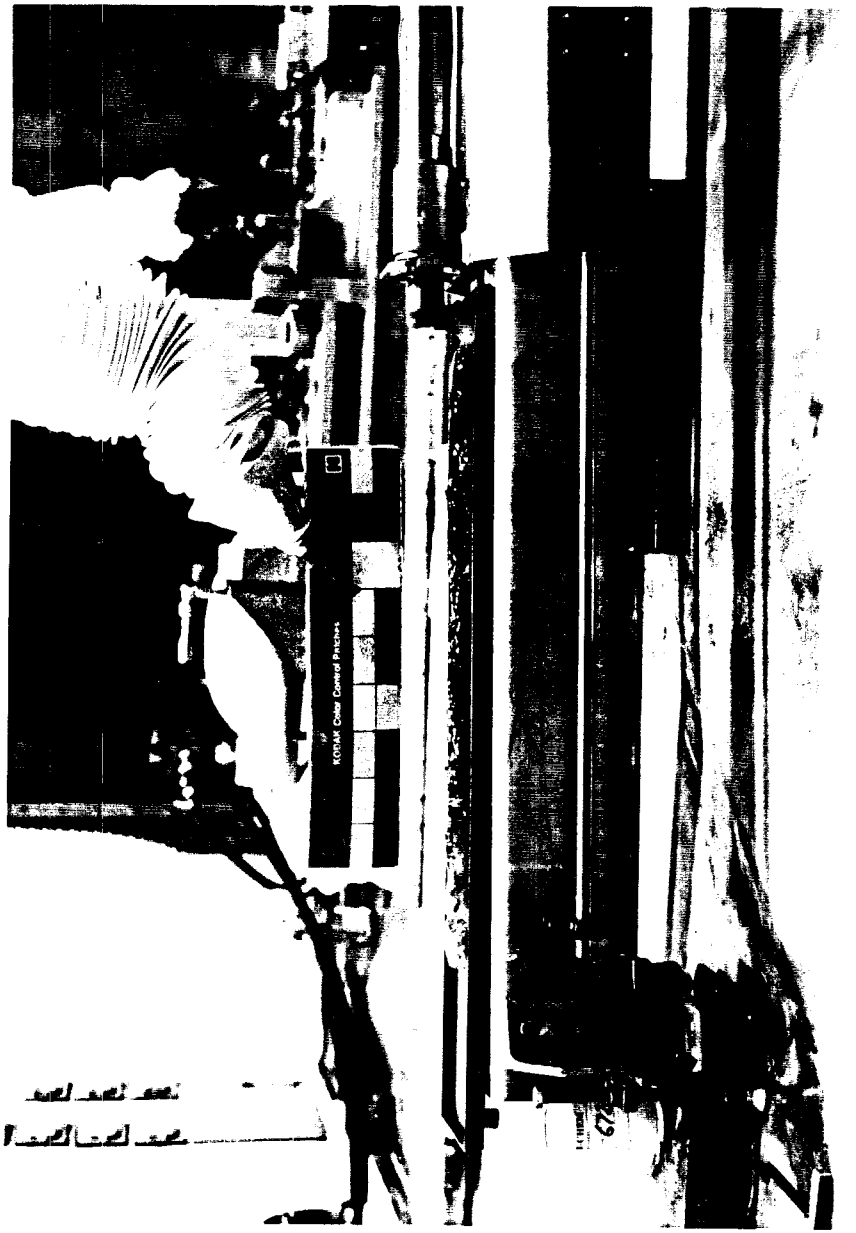
THIS PAGE WAS INTENTIONALLY LEFT BLANK

BEST AVAILABLE COPY

BEST AVAILABLE COPY

Bx-109 Core 64 Segment #2 (Riser 6)

BEST AVAILABLE COPY



BX-109 Core 84 Segment #3 (Rev. 6)

BEST AVAILABLE COPY

BX-109 Core 84 Segment #4 (Riser 6)

BEST AVAILABLE COPY

BX-109 Core 65 Segment #1 (Run 3)

BEST AVAILABLE COPY

BX-109 Circ 85 Segment #9 (Run 2)

BEST AVAILABLE COPY

BEST AVAILABLE COPY

BEST AVAILABLE COPY

4/17/95

BX-109 Core 55 Field Blanks (Run 2)

SAMPLE HANDLING

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 1027

Analyst: EC **Instrument:** BA000 **Book #** N-7

Method: LO-160-103 Rev/Mod A7

Worklist Comment: BX-109 C84 Segment # 1 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.98	N/A	
95000057	BX-109	3	SAMPLE	S95T000704	0		DLIQVOL1	SOLID	N/A	0		mL
95000057	BX-109	4	SAMPLE	S95T000704	0		DLIQWT01	SOLID	N/A	0		g
95000057	BX-109	5	SAMPLE	S95T000704	0		EST.G/ML	SOLID	N/A	0		g/mL
95000057	BX-109	6	SAMPLE	S95T000704	0		EXTRUD01	SOLID	N/A	complete		
95000057	BX-109	7	SAMPLE	S95T000704	0		LLIQWT01	SOLID	N/A	0		g
95000057	BX-109	8	SAMPLE	S95T000704	0		NOTEBOOK	SOLID	N/A	WHC-N-748		
95000057	BX-109	9	SAMPLE	S95T000704	0		SLDVOL01	SOLID	N/A	177		mL
95000057	BX-109	10	SAMPLE	S95T000704	0		SLDWT-01	SOLID	N/A	177		g
95000057	BX-109	11	SAMPLE	S95T000704	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1027

EC 4-11-95
Analyst Signature **Date**

EC 4-11-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by RKFuller 4/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1040

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C84 Segment # 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	20.00	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.98	N/A	
95000057	BX-109	3	SAMPLE	S95T000705	0		DLIQVOL1	SOLID	N/A	0		mL
95000057	BX-109	4	SAMPLE	S95T000705	0		DLIQWT01	SOLID	N/A	0		g
95000057	BX-109	5	SAMPLE	S95T000705	0		EST.G/ML	SOLID	N/A	0		g/mL
95000057	BX-109	6	SAMPLE	S95T000705	0		EXTRUD01	SOLID	N/A	complete		
95000057	BX-109	7	SAMPLE	S95T000705	0		LLIQWT01	SOLID	N/A	0		g
95000057	BX-109	8	SAMPLE	S95T000705	0		NOTEBOOK	SOLID	N/A	WHC-N-748		
95000057	BX-109	9	SAMPLE	S95T000705	0		SLDVOL01	SOLID	N/A	402		mL
95000057	BX-109	10	SAMPLE	S95T000705	0		SLDWT-01	SOLID	N/A	402		g
95000057	BX-109	11	SAMPLE	S95T000705	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1040

EAC 4-11-95
Analyst Signature **Date**

EAC 4-11-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by: RK Miller 4/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1049

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C84 Segment # 3 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.99	N/A	
95000057	BX-109	3	SAMPLE	S95T000708	0		DLIQVOL1	SOLID	N/A	0		mL
95000057	BX-109	4	SAMPLE	S95T000708	0		DLIQWT01	SOLID	N/A	0		g
95000057	BX-109	5	SAMPLE	S95T000708	0		EST.G/ML	SOLID	N/A	0		g/mL
95000057	BX-109	6	SAMPLE	S95T000708	0		EXTRUD01	SOLID	N/A	Complete		
95000057	BX-109	7	SAMPLE	S95T000708	0		LLIQWT01	SOLID	N/A	0		g
95000057	BX-109	8	SAMPLE	S95T000708	0		NOTEBOOK	SOLID	N/A	WHC-N-748		
95000057	BX-109	9	SAMPLE	S95T000708	0		SLDVOL01	SOLID	N/A	414		mL
95000057	BX-109	10	SAMPLE	S95T000708	0		SLDWT-01	SOLID	N/A	414		g
95000057	BX-109	11	SAMPLE	S95T000708	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1049

EC 4-11-95
Analyst Signature **Date**

EC 4-11-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by RK Fuller 4/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
04/07/95 10:13

LABCORE Data Entry Template for Worklist# 1041

Analyst: SC **Instrument:** BA000 _____ **Book #** N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C84 Segment # 4 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	20.00	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.98	N/A	
95000057	BX-109	3	SAMPLE	S95T000706	0		DLIQVOL1	SOLID	N/A	0		mL
95000057	BX-109	4	SAMPLE	S95T000706	0		DLIQWT01	SOLID	N/A	0		g
95000057	BX-109	5	SAMPLE	S95T000706	0		EST.G/ML	SOLID	N/A	0		g/mL
95000057	BX-109	6	SAMPLE	S95T000706	0		LLIQWT01	SOLID	N/A	0 complete		g
95000057	BX-109	7	SAMPLE	S95T000706	0		NOTEBOOK	SOLID	N/A	WHC-N-748		
95000057	BX-109	8	SAMPLE	S95T000706	0		SLDVOL01	SOLID	N/A	402		mL
95000057	BX-109	9	SAMPLE	S95T000706	0		SLDWT-01	SOLID	N/A	402		g
95000057	BX-109	10	SAMPLE	S95T000706	0		ORGVOL01	SOLID	N/A	0		mL
95000057	BX-109	11	SAMPLE	S95T000706	0		EXTRUD01	SOLID	N/A	complete		

Final page for worklist # 1041

Analyst Signature Date 4-11-95

Analyst Signature Date 4-11-95

Data Entry Comments:

Reviewed by RK 4/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1058

Analyst: EC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C85 Segment # 1 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.98	N/A	
95000059	BX-109	3	SAMPLE	S95T000725	0		ORGVOL01	SOLID	N/A	EC 4-11-95 0		mL
95000059	BX-109	4	SAMPLE	S95T000725	0		DLIQVOL1	SOLID	N/A	36		mL
95000059	BX-109	5	SAMPLE	S95T000725	0		DLIQWT01	SOLID	N/A	36		g
95000059	BX-109	6	SAMPLE	S95T000725	0		EST.G/ML	SOLID	N/A	1		g/mL
95000059	BX-109	7	SAMPLE	S95T000725	0		EXTRUD01	SOLID	N/A	Complete		
95000059	BX-109	8	SAMPLE	S95T000725	0		LLIQWT01	SOLID	N/A	0		g
95000059	BX-109	9	SAMPLE	S95T000725	0		NOTEBOOK	SOLID	N/A	WHC-N-748		
95000059	BX-109	10	SAMPLE	S95T000725	0		SLDVOL01	SOLID	N/A	148		mL
95000059	BX-109	11	SAMPLE	S95T000725	0		SLDWT-01	SOLID	N/A	148		g

Final page for worklist # 1058

EC 4-11-95
Analyst Signature **Date**

EC 4-11-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by RK 4/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
04/07/95 15:11

LABCORE Data Entry Template for Worklist# 1059

Analyst: SC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C85 Segment # 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.98	N/A	
95000059	BX-109	3	SAMPLE	S95T000728	0		DLIQVOL1	SOLID	N/A	0		mL
95000059	BX-109	4	SAMPLE	S95T000728	0		DLIQWT01	SOLID	N/A	0		g
95000059	BX-109	5	SAMPLE	S95T000728	0		EST.G/ML	SOLID	N/A	0		g/mL
95000059	BX-109	6	SAMPLE	S95T000728	0		EXTRUD01	SOLID	N/A	complete		
95000059	BX-109	7	SAMPLE	S95T000728	0		LLIQWT01	SOLID	N/A	0		g
95000059	BX-109	8	SAMPLE	S95T000728	0		SLDVOL01	SOLID	N/A	394		mL
95000059	BX-109	9	SAMPLE	S95T000728	0		SLDWT-01	SOLID	N/A	394		g
95000059	BX-109	10	SAMPLE	S95T000728	0		ORGVOL01	SOLID	N/A	0		mL
95000059	BX-109	11	SAMPLE	S95T000728	0		NOTEBOOK	SOLID	N/A	WHC-N-718		

Final page for worklist # 1059

SHC 4-11-95
Analyst Signature **Date**

SHC 4-11-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by
ZKFuller 4/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1143

Analyst: EC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C85 Segment #3 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	20.0	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.97	N/A	
95000059	BX-109	3	SAMPLE	S95T000814	0		DLIQVOL1	SOLID	N/A	0		mL
95000059	BX-109	4	SAMPLE	S95T000814	0		DLIQWT01	SOLID	N/A	0		g
95000059	BX-109	5	SAMPLE	S95T000814	0		EST.G/ML	SOLID	N/A	0		g/mL
95000059	BX-109	6	SAMPLE	S95T000814	0		EXTRUD01	SOLID	N/A	Complete		
95000059	BX-109	7	SAMPLE	S95T000814	0		LLIQWT01	SOLID	N/A	0		g
95000059	BX-109	8	SAMPLE	S95T000814	0		NOTEBOOK	SOLID	N/A	WHC-N-748		
95000059	BX-109	9	SAMPLE	S95T000814	0		SLDVOL01	SOLID	N/A	425		mL
95000059	BX-109	10	SAMPLE	S95T000814	0		SLDWT-01	SOLID	N/A	425		g
95000059	BX-109	11	SAMPLE	S95T000814	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1143

EC 4-18-95
Analyst Signature **Date**

EC 4-18-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by:
RP Fuller 4/21/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1144

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C85 Segment #4 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	20.00	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.98	N/A	
95000059	BX-109	3	SAMPLE	S95T000815	0		DLIQVOL1	SOLID	N/A	74		mL
95000059	BX-109	4	SAMPLE	S95T000815	0		DLIQWT01	SOLID	N/A	74		g
95000059	BX-109	5	SAMPLE	S95T000815	0		EST.G/ML	SOLID	N/A	1		g/mL
95000059	BX-109	6	SAMPLE	S95T000815	0		EXTRUD01	SOLID	N/A	complete		
95000059	BX-109	7	SAMPLE	S95T000815	0		LLIQWT01	SOLID	N/A	25		g
95000059	BX-109	8	SAMPLE	S95T000815	0		NOTEBOOK	SOLID	N/A	WHC-N-748		
95000059	BX-109	9	SAMPLE	S95T000815	0		SLDVOL01	SOLID	N/A	317		mL
95000059	BX-109	10	SAMPLE	S95T000815	0		SLDWT-01	SOLID	N/A	317		g
95000059	BX-109	11	SAMPLE	S95T000815	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1144

EC 4-19-95
Analyst Signature **Date**

EC 4-19-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by KB Taller 4/21/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1145

Analyst: EC **Instrument:** BA000 _____ **Book #** N/A

Method: LO-160-103 Rev/Mod 4-7

Worklist Comment: BX-109 C85 Field Blank Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.98	N/A	
95000059	BX-109	3	SAMPLE	S95T000818	0		DLIQVOL1	LIQUID	N/A	275		mL
95000059	BX-109	4	SAMPLE	S95T000818	0		DLIQWT01	LIQUID	N/A	275		g
95000059	BX-109	5	SAMPLE	S95T000818	0		EST.G/ML	LIQUID	N/A	1		g/mL
95000059	BX-109	6	SAMPLE	S95T000818	0		EXTRUD01	LIQUID	N/A	Complete		
95000059	BX-109	7	SAMPLE	S95T000818	0		LLIQWT01	LIQUID	N/A	N/A 0		g
95000059	BX-109	8	SAMPLE	S95T000818	0		NOTEBOOK	LIQUID	N/A	WHC-N-748		
95000059	BX-109	9	SAMPLE	S95T000818	0		SLDVOL01	LIQUID	N/A	0		mL
95000059	BX-109	10	SAMPLE	S95T000818	0		SLDWT-01	LIQUID	N/A	0		g
95000059	BX-109	11	SAMPLE	S95T000818	0		ORGVOL01	LIQUID	N/A	0		mL

Final page for worklist # 1145

EC 4-18-95
Analyst Signature **Date**

EC 4-18-95
Analyst Signature **Date**

Data Entry Comments:

Received 4/24/95 by RCT

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
08/02/95 13:09

LABCORE Data Entry Template for Worklist# 1962

Analyst: ARK **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C84 S1-S4 comp sampling

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01				EXTRUD01	SOLID	20	20.00	N/A	
		2 INSTCHK02				EXTRUD01	SOLID	500	499.80	N/A	
95000057	BX-109	3 SAMPLE	S95T001325	0		BLKDEN01	SOLID	N/A	1.469		g/mL
95000057	BX-109	4 SAMPLE	S95T001325	0		SAMPAMT1	SOLID	N/A	11.6		g
95000057	BX-109	5 SAMPLE	S95T001327	0	X	ARCHIV01	SOLID	N/A	149.1		g

Final page for worklist # 1962

✓ Alan Campbell 8-11-95
Analyst Signature **Date**

E J Slaff 8-4-95
Analyst Signature **Date**

Data Entry Comments: Reviewed by RK Fuller 8/4/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1264

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 Archive Samples

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	20.00	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.93	N/A	
95000057	BX-109	3	SAMPLE	S95T000761	0	X	ARCHIVE 6934	SOLID	N/A	51.94		g
95000057	BX-109	4	SAMPLE	S95T000764	0	X	ARCHIVE 6935	SOLID	N/A	49.15		g
95000057	BX-109	5	SAMPLE	S95T000767	0	X	ARCHIVE 6907	SOLID	N/A	50.52		g

Final page for worklist # 1264

EC 4-27-95
Analyst Signature **Date**

EC 4-27-95
Analyst Signature **Date**

Data Entry Comments:

Reviewed by RK 5/1/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1275

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 Solid and Liquid Archives

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.69	N/A	
95000057	BX-109	3	SAMPLE	S95T000770	0	X	ARCHIV01 6930	SOLID	N/A	55.59		g
95000057	BX-109	4	SAMPLE	S95T000773	0	X	ARCHIV01 6931	SOLID	N/A	52.78		g
95000057	BX-109	5	SAMPLE	S95T000776	0	X	ARCHIV01 6932	SOLID	N/A	51.82		g
95000057	BX-109	6	SAMPLE	S95T000779	0	X	ARCHIV01 6933	SOLID	N/A	52.36		g
95000059	BX-109	7	SAMPLE	S95T000782	0	X	ARCHIV01 6921	SOLID	N/A	54.73		g
95000059	BX-109	8	SAMPLE	S95T000788	0	X	ARCHIV01 6922	SOLID	N/A	56.71		g
95000059	BX-109	9	SAMPLE	S95T000791	0	X	ARCHIV01 6927	SOLID	N/A	51.19		g
95000059	BX-109	10	SAMPLE	S95T000838	0	X	ARCHIV01 7153	SOLID	N/A	58.78		g
95000059	BX-109	11	SAMPLE	S95T000841	0	X	ARCHIV01 7154	SOLID	N/A	55.22		g
95000059	BX-109	12	SAMPLE	S95T000849	0	X	ARCHIV01 7157	SOLID	N/A	56.54		g
95000059	BX-109	13	SAMPLE	S95T000852	0	X	ARCHIV01 7158	SOLID	N/A	53.70		g
95000059	BX-109	14	SAMPLE	S95T000785	0	X	ARCHIV01 6892	LIQUID	N/A	25.61		g
95000059	BX-109	15	SAMPLE	S95T000855	0	X	ARCHIV01 7156	LIQUID	N/A	43.74		g
95000059	BX-109	16	SAMPLE	S95T000858	0	X	ARCHIV01 7152	LIQUID	N/A	37.10		g

Data Entry Comments:

Reviewed 5/2/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1275

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 1275

EAC 5-1-95
Analyst Signature Date

EAC 5-1-95
Analyst Signature Date

Data Entry Comments:

Reviewed by Andrew B. Carlson 5/2/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

THIS PAGE WAS INTENTIONALLY LEFT BLANK

SAMPLE PREPARATIONS

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 2041

Analyst: ABC **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BX-109 C85 Seg 1-4 Composite Subsampling & Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	20	20.00	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	500	499.77	N/A	
95000059	BX-109	3 SAMPLE	S95T001468	0	7333 SAMPAMT1	SOLID	N/A	10.6	_____	g
95000059	BX-109	4 SAMPLE	S95T001472	0	X ~~7448~~ ARCHIV01	SOLID	N/A	99.0	_____	g

ABC 8/22 7364

Final page for worklist # 2041

Alan Campbell 8/23/95
Analyst Signature Date

Alan Campbell 8/23/95
Analyst Signature Date

Reviewed by Stephen B. Barnes 9/13/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1168

Analyst: Ons R **Instrument:** FUS01 AL11066 4-25-95 **Book #** _____

AL 11066

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: BX-109 FUSION - 759->760, 762->763

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT	
		1 BLNK-PREP				FUSION01	SOLID	250 mL	250 mL	N/A	g/L	
95000057	BX-109	2 SAMPLE	S95T000760	0	F	FUSION01	SOLID	N/A	2.0540		g/L	20 mL HCl
		.5135 g → .250 L = (2.0540)										
95000057	BX-109	3 DUP	S95T000760	0	F	FUSION01	SOLID	2.0504 4-25-95 JMH	2.0504	N/A	g/L	20 mL HCl
		.5126 g → .250 L (2.0504)										
95000057	BX-109	4 SAMPLE	S95T000763	0	F	FUSION01	SOLID	N/A	2.1732		g/L	20 mL HCl
		.5433 g → .250 L = (2.1732)										
95000057	BX-109	5 DUP	S95T000763	0	F	FUSION01	SOLID	2.1732	2.1128	N/A	g/L	20 mL HCl
		.5282 g → .250 L (2.1128)										

Final page for worklist # 1168

Analyst Signature Date 4-25-95

Bertrand Guiff II 5-1-95
Analyst Signature Date

Data Entry Comments:

- Dose rate was 25 mR/hr
- HPT was Brian Parsons.

Bertrand Guiff II 5-1-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1169

Analyst: [signature] **Instrument:** FUS01 AL110606 **Book #** _____

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: BX-109 FUSION - 765->766, 768->769

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	250ml	250mL	N/A	g/L
95000057	BX-109	2	SAMPLE	S95T000766 .4635g → 250 ml	0	F	FUSION01	SOLID	N/A	1.8540		g/L
95000057	BX-109	3	DUP	S95T000766 .4994g → 250ml	0	F	FUSION01	SOLID	1.8540	1.9976	N/A	g/L
95000057	BX-109	4	SAMPLE	S95T000769 .5003g → 250ml	0	F	FUSION01	SOLID	N/A	2.0012		g/L
95000057	BX-109	5	DUP	S95T000769 .4929g → 250 ml	0	F	FUSION01	SOLID	2.0012	1.9716	N/A	g/L

Final page for worklist # 1169

[signature] 4-24-95
Analyst Signature **Date**

Bertrand Griffin II 4-26-95
Analyst Signature **Date**

Data Entry Comments:
Dose Rate was 12 mRad. HPT was Jim Evans.
<.1% solids. 20 ml H/Cl.
Bertrand Griffin II 4-26-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
04/19/95 06:39

LABCORE Data Entry Template for Worklist# 1170

Analyst: [illegible] **Instrument:** FUS01 AL110666 **Book #** _____

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: BX-109 FUSION - 771->772, 774->775

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250ml		N/A	g/L
95000057	BX-109	2 SAMPLE	S95T000772	0 F	FUSION01	SOLID	N/A	2.0020		g/L
		~5009g → 250ml								
95000057	BX-109	3 DUP	S95T000772	0 F	FUSION01	SOLID	2.0020	2.0032	N/A	g/L
		~5008g → 250ml								
95000057	BX-109	4 SAMPLE	S95T000775	0 F	FUSION01	SOLID	N/A	1.9760		g/L
		~4940g → 250ml								
95000057	BX-109	5 DUP	S95T000775	0 F	FUSION01	SOLID	1.9760	1.9776	N/A	g/L
		~4944g → 250ml								

Final page for worklist # 1170

Teresa Murphy 4-27-95
Analyst Signature **Date**

Stu Peterson 4-27-95
Analyst Signature **Date**

Data Entry Comments:
Scale calibrated 200g/100g/100g. 20ml HCl.
Sample & dups had <1% solids.
Dose rate was 4mR/Hr HPT was Jim Evans

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Reviewed by [illegible] 5-1-95

LABCORE Data Entry Template for Worklist# 1171

Analyst: [signature] **Instrument:** FUS01 AL110666 **Book #** _____

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: BX-109 FUSION - 777->778, 780->781

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				FUSION01	SOLID	250ml		N/A	g/L
95000057	BX-109	2 SAMPLE .4656 g → 250 ml	S95T000778	0	F	FUSION01	SOLID	N/A	1.8624		g/L
95000057	BX-109	3 DUP .4878 g → 250 ml	S95T000778	0	F	FUSION01	SOLID	1.8624	1.9512	N/A	g/L
95000059	BX-109	4 SAMPLE .5135 g → 250 ml	S95T000781	0	F	FUSION01	SOLID	N/A	2.0540		g/L
95000059	BX-109	5 DUP .5231 g → 250 ml	S95T000781	0	F	FUSION01	SOLID	2.0540	2.0924	N/A	g/L

Final page for worklist # 1171

[signature] 4-26-95
Analyst Signature **Date**

[signature] 5-2-95
Analyst Signature **Date**

Data Entry Comments:
Samples & Dups had <.1% solids. 20ml HCl. HPT was Joe Valdez
Dose rate was 100 mRad/Hr
[signature] 5-2-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
04/19/95 06:44

LABCORE Data Entry Template for Worklist# 1172

Analyst: [illegible] **Instrument:** FUS01 AL11066 **Book #** _____

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: BX-109 FUSION - 786->787, 789->790

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	250ml		N/A	g/L
95000059	BX-109	2	SAMPLE	S95T000787	0	F	FUSION01	SOLID	N/A	2.3020		g/L
			.5755g → 250ml									
95000059	BX-109	3	DUP	S95T000787	0	F	FUSION01	SOLID	2.3020	2.3200	N/A	g/L
			.5800g → 250ml									
95000059	BX-109	4	SAMPLE	S95T000790	0	F	FUSION01	SOLID	N/A	2.0100		g/L
			.5025g → 250ml									
95000059	BX-109	5	DUP	S95T000790	0	F	FUSION01	SOLID	2.0100	1.9900	N/A	g/L
			.4975g → 250ml									

Final page for worklist # 1172

Kevin Murphy 4-20-95
Analyst Signature **Date**

[illegible] 4-21-95
Analyst Signature **Date**

Data Entry Comments:
20ml HCl. 15mRad/hr Sig Jandoe
Bertrand Griffin II 4-24-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
05/01/95 09:39

LABCORE Data Entry Template for Worklist# 1269

Analyst: [illegible] **Instrument:** FUS01 AL 110616 **Book #** NA

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: BX-109 FUSION - 836->837, 839->840

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				FUSION01	SOLID	250 ml		N/A	g/L
95000059	BX-109	2 SAMPLE	S95T000837	0	F	FUSION01	SOLID	N/A	2.0996		g/L
		.5249g -> 250 ml									
95000059	BX-109	3 DUP	S95T000837	0	F	FUSION01	SOLID	2.0996	2.0992	N/A	g/L
		.5248g -> 250 ml									
95000059	BX-109	4 SAMPLE	S95T000840	0	F	FUSION01	SOLID	N/A	1.8884		g/L
		.4721g -> 250 ml									
95000059	BX-109	5 DUP	S95T000840	0	F	FUSION01	SOLID	1.8884	1.8936	N/A	g/L
		.4734g -> 250 ml									

Final page for worklist # 1269

Teresa Murphy 5-3-95
Analyst Signature Date

5-4-95

Bertrand Griffin II 5-5-95
Analyst Signature Date

Data Entry Comments:
Scale calibrated 200/100/100. Dose rate was 10 mrem/hr
HPT was Brian Parsons.
BGII 5-5-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1270

Analyst: lmh **Instrument:** FUS01 AL11066 **Book #** _____

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: BX-109 FUSION - 847->848, 850->851

Approximately HCl

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT	
		1 BLNK-PREP				FUSION01	SOLID	250 mL	250 mL	N/A	g/L	20 mL
95000059 .4819 G	BX-109 (S249 G → .250 L)	2 SAMPLE	S95T000848	0	F	FUSION01	SOLID	N/A	1.9276		g/L	20 mL
95000059 .4731 G	BX-109 (S248 G → .250 L)	3 DUP	S95T000848	0	F	FUSION01	SOLID	1.9276	1.8924	N/A	g/L	20 mL
95000059 .5208 G	BX-109 →	4 SAMPLE	S95T000851 .250 L	0	F	FUSION01	SOLID	N/A	2.0832		g/L	20 mL
95000059 .5196	BX-109 →	5 DUP	S95T000851 .250 L	0	F	FUSION01	SOLID	2.0832	2.0784	N/A	g/L	20 mL

Final page for worklist # 1270

Analyst Signature 5-3-95 Date

Analyst Signature 5-5-95 Date

Data Entry Comments:

OTR: 15 mrad

HPT: Pam Higby 5-5-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1972

Analyst: GAM **Instrument:** FUS01 AL11066 **Book #** _____

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BX-109 C84 Comp Fusion 1325 --> 1329

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				FUSION01	SOLID	250 ml	250	N/A	g/L
95000057	BX-109	2 SAMPLE .5535g → 250ml	S95T001329	0	F	FUSION01	SOLID	N/A	2.2140		g/L
95000057	BX-109	3 SAMPLE	S95T001329	0		DOSE-02	SOLID	N/A	100		mrad/hour
95000057	BX-109	4 DUP .5669g → 250ml	S95T001329	0	F	FUSION01	SOLID	2.2140	2.2676	N/A	g/L
95000057	BX-109	5 DUP	S95T001329	0		DOSE-02	SOLID	100	100	N/A	mrad/hour

Final page for worklist # 1972

8-9-95
Analyst Signature Date

8-9-95
Analyst Signature Date

Received by RKFuller 8/9/95

Data Entry Comments: BLANK 20ml HCL 10ml HNO_3 SAMPLE AND DUP 20ml HCL 20 ml HNO_3 HPT WAS G. GUNUSKEY

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2062

Analyst: [signature] **Instrument:** FUS01 AL11066 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BX-109 FUSION - 1468->1471

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				FUSION01	SOLID	250ml		N/A	g/L
95000059	BX-109	2 SAMPLE .2609g → 250ml	S95T001471	0	F	FUSION01	SOLID	N/A	1.0436		g/L
95000059	BX-109	3 SAMPLE	S95T001471	0		DOSE-02	SOLID	N/A	50		mrad/hour
95000059	BX-109	4 DUP .2652g → 250ml	S95T001471	0	F	FUSION01	SOLID	1.0436	1.0408	N/A	g/L
95000059	BX-109	5 DUP	S95T001471	0		DOSE-02	SOLID	N/A	50	N/A	mrad/hour

Final page for worklist # 2062

[signature] 8-25-95
Analyst Signature **Date**

[signature] 8-25-95
Analyst Signature **Date**

Data Entry Comments:
Blank - 20ml HCl, 20ml HNO_3, <1% Solids
Samp&Dup - 20ml HCl, 10ml HNO_3, <1% Solids
HPT was Sam Schmel

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

[signature] 8-28-95

LABCORE Data Entry Template for Worklist# 1498

Analyst: LMH2 **Instrument:** H2O01AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod C-0

Worklist Comment: BX-109 H2O DGST - 759->976, 762->977, 765->980

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP 100mL Tot Vol				H2ODIG01	SOLID	100	100	N/A	g/L
95000057	BX-109	2	SAMPLE .51899 → 100mL	S95T000976	0	W	H2ODIG01	SOLID	N/A	5.1890		g/L
95000057	BX-109	3	DUP .53499 → 100mL	S95T000976	0	W	H2ODIG01	SOLID	5.1890	5.3490	N/A	g/L
95000057	BX-109	4	SAMPLE .60319 → 100mL	S95T000977	0	W	H2ODIG01	SOLID	N/A	6.0310		g/L
95000057	BX-109	5	DUP .61379 → 100mL	S95T000977	0	W	H2ODIG01	SOLID	6.0310	6.1370	N/A	g/L
95000057	BX-109	6	SAMPLE .50319 → 100mL	S95T000980	0	W	H2ODIG01	SOLID	N/A	5.0310		g/L
95000057	BX-109	7	DUP .50449 → 100mL	S95T000980	0	W	H2ODIG01	SOLID	5.0310	5.0440	N/A	g/L

Final page for worklist # 1498

Helen Hall Hasler 06/13/95
Analyst Signature **Date**

Doug Hammett 6/14/95
Analyst Signature **Date**

Dose Rated @0.5 M Rad/hr by Jim Evans

Data Entry Comments:
Samples were separated within vials with a sludge phase and an aqueous/organic phase. Samples were stirred before weighing. The appearance of organic seemed to exist after H2O addition <initialed 6/13/95>

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

93 Bertrand Griffin II 6-14-95

LABCORE Data Entry Template for Worklist# 1499

Analyst: LMHZ **Instrument:** H2O01 AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod ~~0~~ 0 thrust 06/30/95 D-O

Worklist Comment: BX-109 H2O DGST - 768->981, 771->982, 774->983

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	100mL	100mL	N/A	g/L
95000057	BX-109	2 SAMPLE	S95T000981	0 W	H2ODIG01	SOLID	N/A	9.9110		g/L
		.9911g → 100mL								
95000057	BX-109	3 DUP	S95T000981	0 W	H2ODIG01	SOLID	9.9110	10.3220	N/A	g/L
		1.0322g → 100mL								
95000057	BX-109	4 SAMPLE	S95T000982	0 W	H2ODIG01	SOLID	N/A	10.4300		g/L
		1.0430g → 100mL								
95000057	BX-109	5 DUP	S95T000982	0 W	H2ODIG01	SOLID	10.4300	10.5420	N/A	g/L
		1.0542g → 100mL								
95000057	BX-109	6 SAMPLE	S95T000983	0 W	H2ODIG01	SOLID	N/A	10.3390		g/L
		1.0339g → 100mL								
95000057	BX-109	7 DUP	S95T000983	0 W	H2ODIG01	SOLID	10.3390	10.5400	N/A	g/L
		1.0540g → 100mL								

Final page for worklist # 1499

Felisa Marie Cantu 06/30/95
Analyst Signature **Date**

Bertrand Griffin II 7-6-95
Analyst Signature **Date**

Data Entry Comments: Scale AL11066 calibrated @ 150.0019 w/ external weight. Samples were separated into an organic layer and a sludge layer before weighing. Samples were stirred and weighed but the appearance of organic content remained after addition of water. Samples were shaken to emulsify before sonication per chemist instruction. LMHZ 06/30/95 Dose Rate 1 Rad/hr
Outside caller LMHZ 07/10/95 Bertrand Griffin II 7-13-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1501

Analyst: LMHZ **Instrument:** H2O01 AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod ~~0-0~~ 0 (Rev) 04/30/96 D-0

Worklist Comment: BX-109 H2O DGST - 777->984, 780->994, 786->995

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP 100mL total volume			H2ODIG01	SOLID	100mL	100mL	N/A	g/L
95000057	BX-109	2 SAMPLE 1.0280g → 100mL	S95T000984	0 W	H2ODIG01	SOLID	N/A	10.2800		g/L
95000057	BX-109	3 DUP 1.0438g → 100mL	S95T000984	0 W	H2ODIG01	SOLID	10.2800	10.4380	N/A	g/L
95000059	BX-109	4 SAMPLE 1.0033g → 100mL	S95T000994	0 W	H2ODIG01	SOLID	N/A	10.0330		g/L
95000059	BX-109	5 DUP 1.0446g → 100mL	S95T000994	0 W	H2ODIG01	SOLID	10.0330	10.4460	N/A	g/L
95000059	BX-109	6 SAMPLE 1.0205g → 100mL	S95T000995	0 W	H2ODIG01	SOLID	N/A	10.2050		g/L
95000059	BX-109	7 DUP 1.0181g → 100mL	S95T000995	0 W	H2ODIG01	SOLID	10.2050	10.1810	N/A	g/L

Final page for worklist # 1501

Lori Marie Hustad 06/30/95
Analyst Signature **Date**

Bertrand Griffin II 7-6-95
Analyst Signature **Date**

Data Entry Comments:
Samples were separated into an organic layer and a sludge layer before weighing. Samples were stirred and weighed, but the appearance of organic content remained after addition of water. Samples were taken to ~~emulsify~~ emulsify before sonication per chemist instruction. LMH 6/30/95 6-30

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code. Dose Rate 1 mRad/hr outside carton LMH 6/30/1995

Bertrand Griffin II 7-13-95

LABCORE Data Entry Template for Worklist# 1502

Analyst: LMH2 **Instrument:** H2O01/AC11066 **Book #** N/A

Method: LA-504-101 Rev/Mod DO

Worklist Comment: BX-109 H2O DGST - 789->996, 836->997, 839->998

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIGO1	SOLID	1	100mL	N/A	g/L
95000059	BX-109	2 SAMPLE	S95T000996	0	W	H2ODIGO1	SOLID	N/A	10.000		g/L
	1.0106g → 100mL										
95000059	BX-109	3 DUP	S95T000996	0	W	H2ODIGO1	SOLID	10.000	10.695	N/A	g/L
	1.0695g → 100mL										
95000059	BX-109	4 SAMPLE	S95T000997	0	W	H2ODIGO1	SOLID	N/A	10.2700		g/L
	1.0270g → 100mL										
95000059	BX-109	5 DUP	S95T000997	0	W	H2ODIGO1	SOLID	10.2700	10.6560	N/A	g/L
	1.0656g → 100mL										
95000059	BX-109	6 SAMPLE	S95T000998	0	W	H2ODIGO1	SOLID	N/A	10.5650		g/L
	1.0565g → 100mL										
95000059	BX-109	7 DUP	S95T000998	0	W	H2ODIGO1	SOLID	10.5650	10.6740	N/A	g/L
	1.0674g → 100mL										

Final page for worklist # 1502

Analyst Signature Date 07/12/95

Analyst Signature Date 7-14-95

Samples were separated into an organic layer and a sludge layer before weighing. Samples were stirred and weighed but the appearance of organic content remained after addition of water. Samples were shaken to emulsify before sonication.

Data Entry Comments: LMH2 07/12/95 Samples were centrifuged per Manager instruction to assist in filtering solids LMH2 07/13/95 Dessicated @ 1mRad/hr By Daryl Haines LMH2 07/13/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Richard Griffin II 7-14-95

LABCORE Data Entry Template for Worklist# 1503

Analyst: LMH2 **Instrument:** H2O01 AL1066 **Book #** N/A

Method: LA-504-101 Rev/Mod DO

Worklist Comment: BX-109 H2O DGST - 847->999, 850->1000

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H2ODIG01	SOLID		100mL	N/A	g/L
95000059	BX-109	2	SAMPLE	S95T000999	0	W	H2ODIG01	SOLID	N/A	10.6350		g/L
95000059	BX-109	3	DUP	S95T000999	0	W	H2ODIG01	SOLID	10.6350	11.0320	N/A	g/L
95000059	BX-109	4	SAMPLE	S95T001000	0	W	H2ODIG01	SOLID	N/A	9.5770		g/L
95000059	BX-109	5	DUP	S95T001000	0	W	H2ODIG01	SOLID	9.5770	9.7340	N/A	g/L

1.0635g → 100mL
1.1032g → 100mL
0.9577g → 100mL
0.9734g → 100mL

Final page for worklist # 1503

Glen Mains Hustead 07/12/95
Analyst Signature **Date**

7-14-95
Analyst Signature **Date**

Dose Rated @ 1 mRad/hr By Daryl Haynes 07/13/95

Data Entry Comments: Samples were separated into an organic layer and a sludge layer before weighing. Samples were stirred and weighed but the appearance of organic content remained after addition of water. Samples were shaken to emulsify before sonication 07/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Manager instruction to assist in filtering Solids 07/13/95

Bertrand Griffin II 7-14-95

LABCORE Data Entry Template for Worklist# 1722

Analyst: Jml **Instrument:** H2O01 AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod D-O

Worklist Comment: BX-109 WATER DIL. - 783->993, 853->1001

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIL01	LIQUID	~~250~~ 100 mL	~~25~~ 100 S	N/A	DF
95000059	BX-109	2 SAMPLE	S95T000993	0	V	H2ODIL01	LIQUID	N/A	100		DF
		1 ml → 100 ml									
95000059	BX-109	3 SAMPLE	S95T000993	0		DOSE-02	LIQUID	N/A	2.5		mrad/hour
95000059	BX-109	4 DUP	S95T000993	0	V	H2ODIL01	LIQUID	100	100	N/A	DF
		1 ml → 100 ml									
95000059	BX-109	5 DUP	S95T000993	0		DOSE-02	LIQUID		2.5	N/A	mrad/hour
95000059	BX-109	6 SAMPLE	S95T001001	0	V	H2ODIL01	LIQUID	N/A	100		DF
		1 ml → 100 ml									
95000059	BX-109	7 SAMPLE	S95T001001	0		DOSE-02	LIQUID	N/A	2.5		mrad/hour
95000059	BX-109	8 DUP	S95T001001	0	V	H2ODIL01	LIQUID	100	100	N/A	DF
		1 ml → 100 ml									
95000059	BX-109	9 DUP	S95T001001	0		DOSE-02	LIQUID		2.5	N/A	mrad/hour

Final page for worklist # 1722

Analyst Signature Date 6-30-95

Analyst Signature Date 6-30-95

100 ml / 1 ml = 100 = DF ← CALC. for all SAM's & DUP's.

Data Entry Comments:

HPT: Sam Schinzel

CTR: 0.5 mrad p/hr

Bertram Thigpen II 7-6-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

THIS PAGE WAS INTENTIONALLY LEFT BLANK

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 1293

Analyst: [illegible] **Instrument:** ACD01 N/A **Book #** WHC-1A/G4JWHC1A/U1
WHC-2/G3MWHC2/U1C

Method: LA-505-158 Rev/Mod A-4

Worklist Comment: BX-109 ACID - 783->784, 853->854, 856->857

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				ACIDIL01	LIQUID	100	100	N/A	DF
		2 STD-PREP				ACIDIL01	LIQUID	20	20	N/A	DF
95000059	BX-109	3 SAMPLE	S95T000784	0	D	ACIDIL01	LIQUID	N/A	100		DF
95000059	BX-109	4 DUP	S95T000784	0	D	ACIDIL01	LIQUID	100	100	N/A	DF
95000059	BX-109	5 SPK	S95T000784	0	D	ACIDIL01	LIQUID	20	20	N/A	DF
95000059	BX-109	6 SAMPLE	S95T000854	0	D	ACIDIL01	LIQUID	N/A	100		DF
95000059	BX-109	7 DUP	S95T000854	0	D	ACIDIL01	LIQUID	100	100	N/A	DF
95000059	BX-109	8 SPK	S95T000854	0	D	ACIDIL01	LIQUID	20	20	N/A	DF
95000059	BX-109	9 SAMPLE	S95T000857	0	D	ACIDIL01	LIQUID	N/A	100		DF
95000059	BX-109	10 DUP	S95T000857	0	D	ACIDIL01	LIQUID	100	100	N/A	DF
95000059	BX-109	11 SPK	S95T000857	0	D	ACIDIL01	LIQUID	20	20	N/A	DF

Final page for worklist # 1293

[illegible] 5-22-95
Analyst Signature **Date**

Bertrand Biff II 5-30-95
Analyst Signature **Date**

Data Entry Comments:

HPT - Gerry Gunning
OTR was < 0.5 mrad p/hr.
Data entered.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Bertrand Biff II 5-30-95

THIS PAGE WAS INTENTIONALLY LEFT BLANK

INORGANIC ANALYSES

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 1220

Analyst: DCD **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	29.7	N/A	Joules/g
95000057	BX-109	2 SAMPLE	S95T000759	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000057	BX-109	3 DUP	S95T000759	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000057	BX-109	4 SAMPLE	S95T000762	0		DSC-01	SOLID	N/A	N/A		Joules/g
95000057	BX-109	5 DUP	S95T000762	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
		6 STD				DSC-01	SOLID	28.45	26.3	N/A	Joules/g
95000057	BX-109	7 TRIPL	S95T000762	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1220

See attached for signatures 5/8/95 BDV
Analyst Signature **Date**

5/8/95
Analyst Signature **Date**

Data Entry Comments: S95T000759 produced ~~one~~ 5/6/95 BDV two endotherms one at 119.8°C with a delta H ~~of~~ 5/6/95 BDV of 1300.5 J/g and second at 284.9°C with a delta H of 44.3 J/g The first sample of S95T000762 was not evaluated due to the fact we had an electronic problem with the DSC. A triple was run for this sample and the duplicate

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

number is considered the actual.

LABCORE Data Entry Template for Worklist# 1220

Analyst: DCD **Instrument:** DSC01 _____ **Book #** 12N14A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	~~28.15~~	~~29.7~~	5/8/95 BDV N/A	Joules/g
95000057	BX-109	2 SAMPLE	S95T000759	0		DSC-01	SOLID	N/A			Joules/g
95000057	BX-109	3 DUP	S95T000759	0		DSC-01	SOLID			N/A	Joules/g
95000057	BX-109	4 SAMPLE	S95T000762	0		DSC-01	SOLID	N/A			Joules/g
95000057	BX-109	5 DUP	S95T000762	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 1220

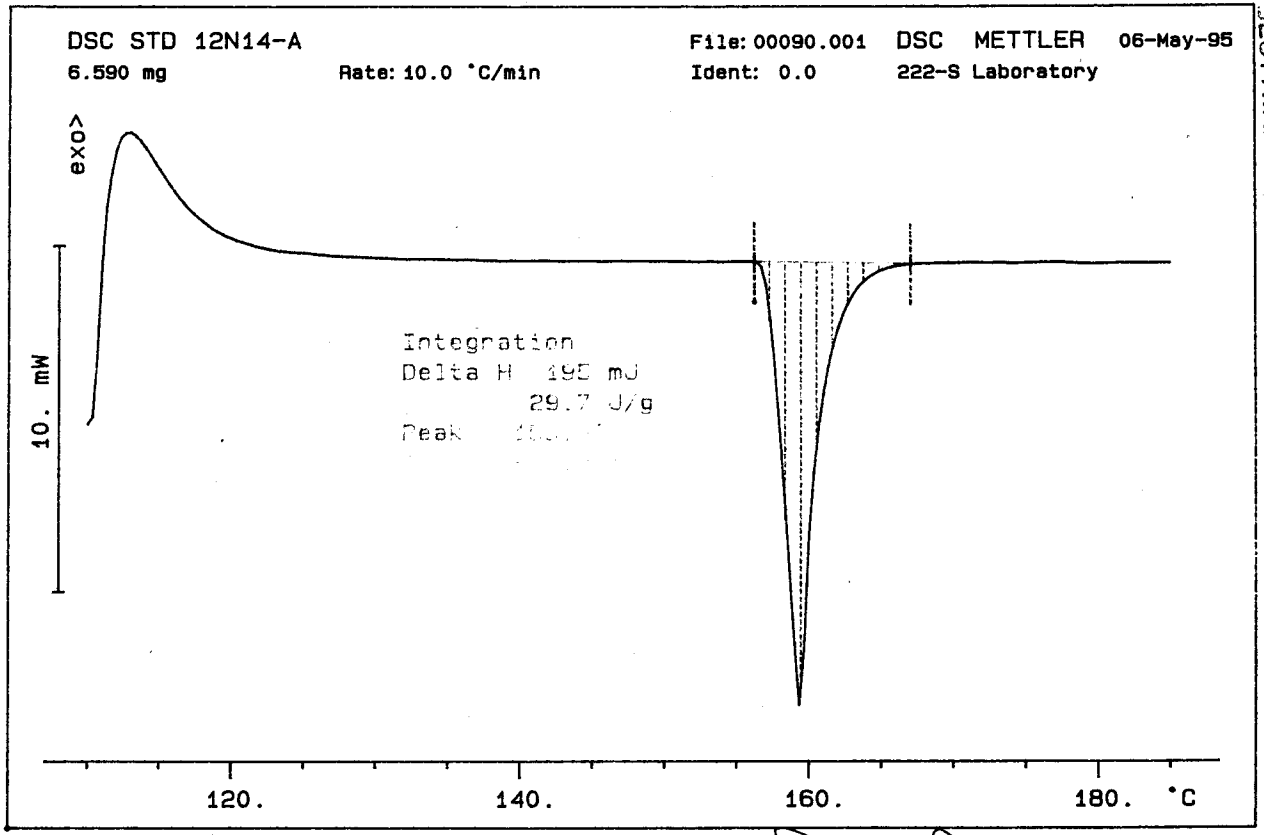
David C Dunham 5-7-95
Analyst Signature **Date**

_____
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 105 TO 110.

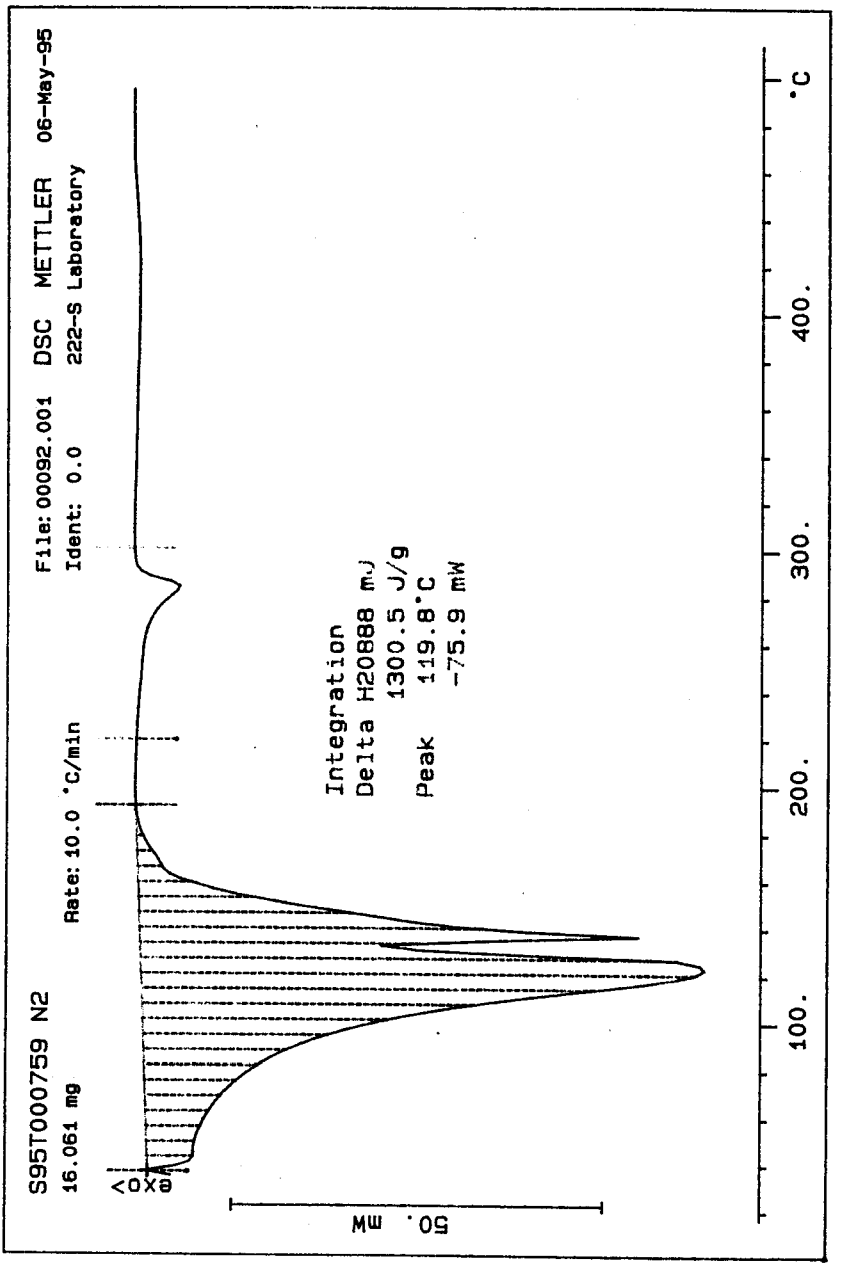


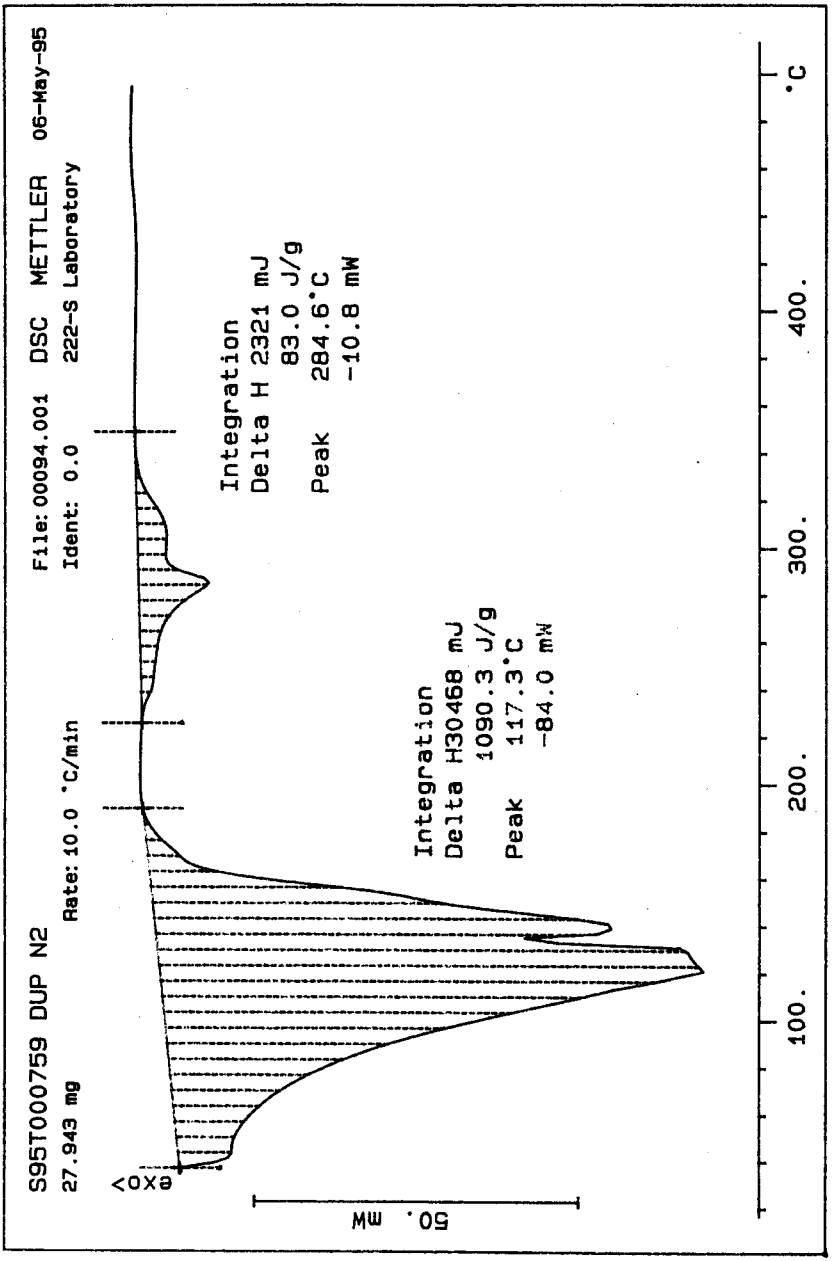
BEST AVAILABLE COPY

105

David Dunbar 5-7-95

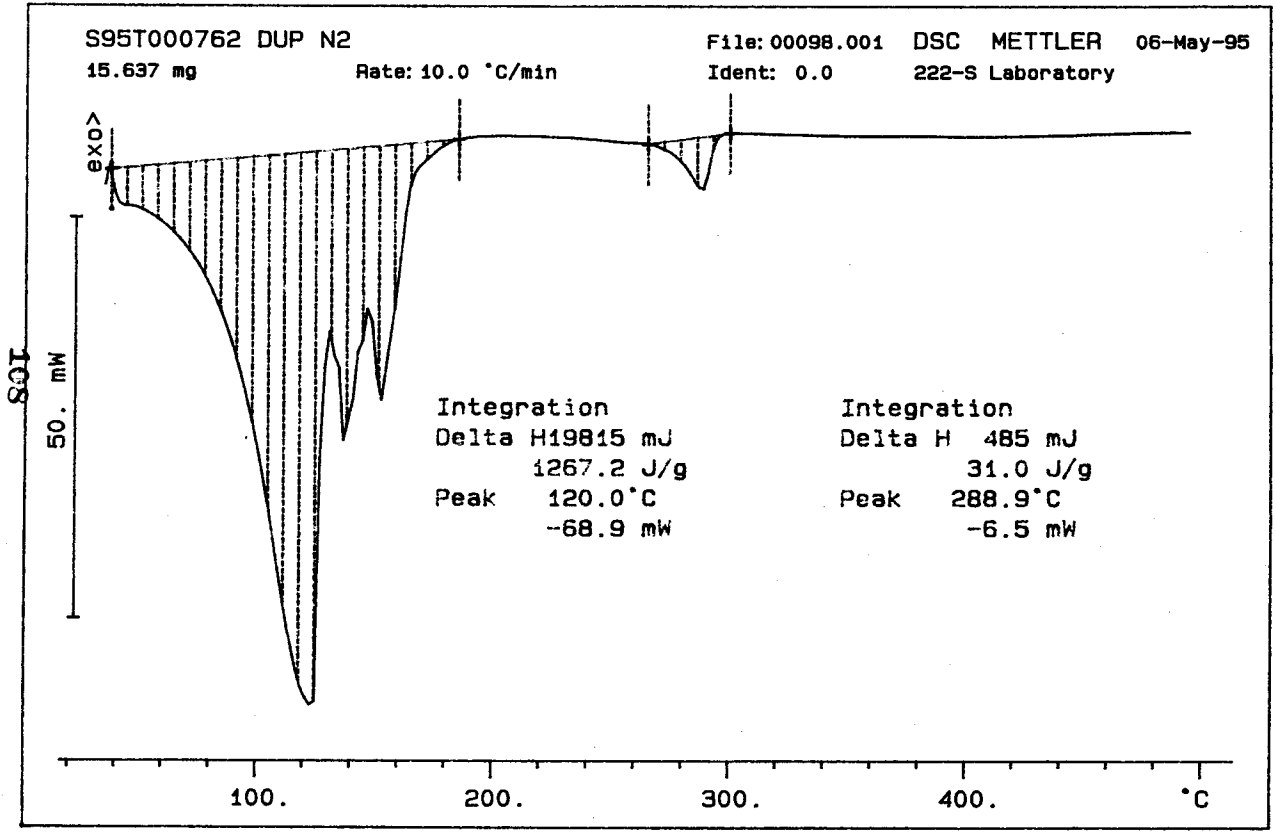
BEST AVAILABLE COPY

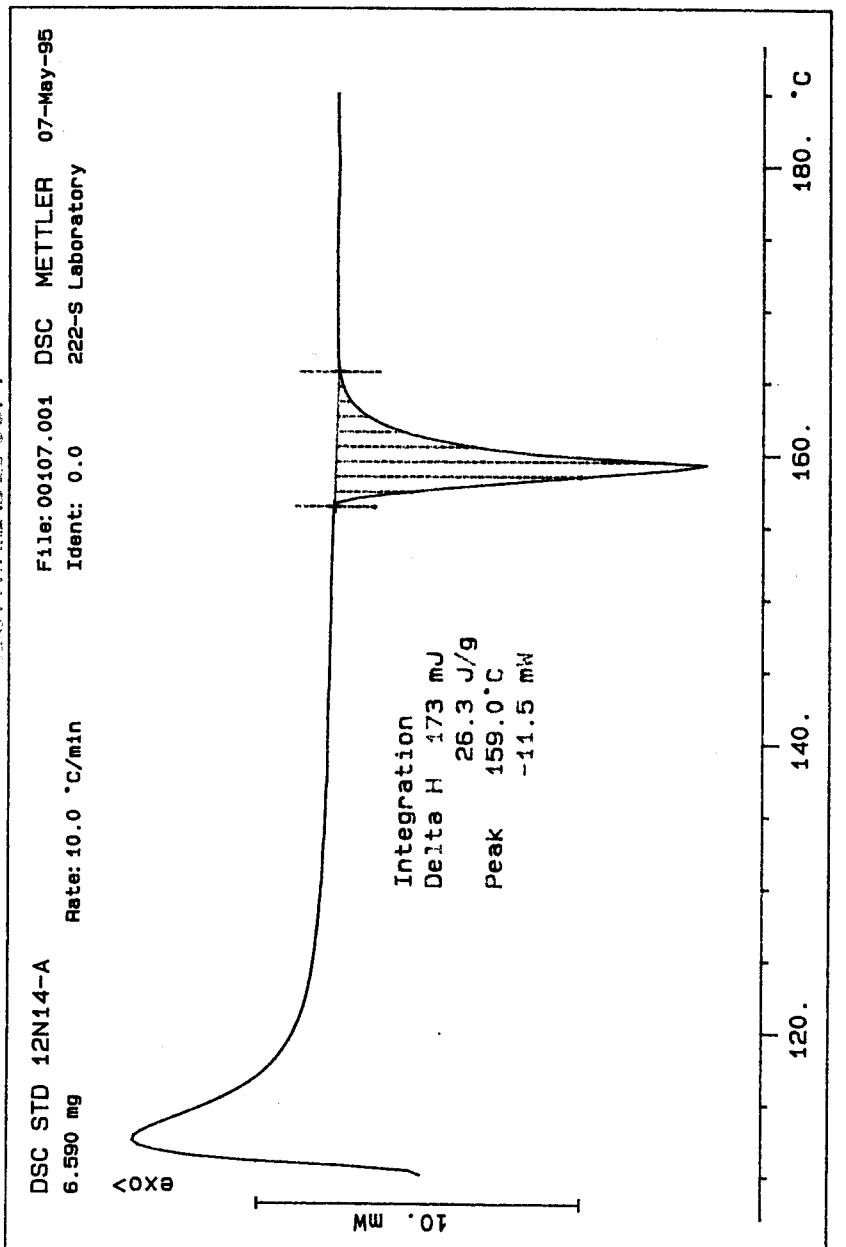




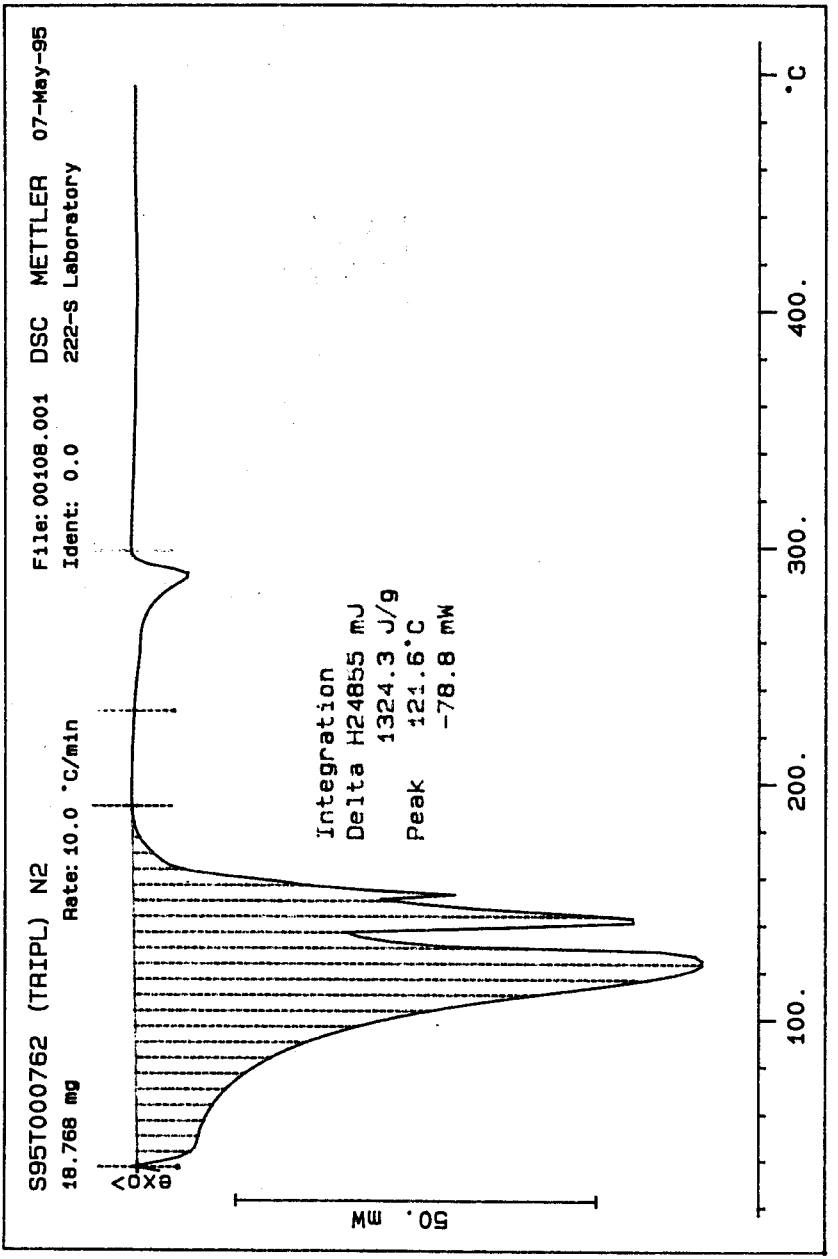
TRANSLATABLE COPY

TEST AVAILABLE COPY





TECHNICAL DATA COPY


S95T000762 (TRIPL) N2
18.768 mg
Rate: 10.0 °C/min
File: 00108.001 DSC METTLER 07-May-95
Ident: 0.0 222-S Laboratory
Integration
Delta H24855 mJ
1324.3 J/g
Peak 121.6°C
-78.8 mW
exo
50. mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 1221

Analyst: KRM **Instrument:** DSC01 03 5/11/95 BDV **Book #** 12N14-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	27.22	N/A	Joules/g
95000057	BX-109	2 SAMPLE	S95T000765	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000057	BX-109	3 DUP	S95T000765	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000057	BX-109	4 SAMPLE	S95T000768	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000057	BX-109	5 DUP	S95T000768	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1221

See attached for signatures 5/11/95 BDV
Analyst Signature **Date**

Analyst Signature 5-12-95 **Date**

Verified by Blandina Valenzuela 5/15/95

S95T000765 produced two endotherms one at 118.1°C with a delta H of 887.6 J/g. and second at 289.7°C with a delta H of 13.7 J/g.

Data Entry Comments: S95T000768 produced three endotherms one at 101.6°C with a delta H of 815.8 J/g, second at 290.4°C 5/11/95 BDV with a delta H of 36.4 J/g, and third at 366.2°C with a delta H of 40.46 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
04/28/95 09:15

LABCORE Data Entry Template for Worklist# 1221

Analyst: KRM 114 **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-514 ~~-113~~ Rev/Mod B-0

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID			N/A	Joules/g
95000057	BX-109	2 SAMPLE	S95T000765	0		DSC-01	SOLID	N/A			Joules/g
95000057	BX-109	3 DUP	S95T000765	0		DSC-01	SOLID			N/A	Joules/g
95000057	BX-109	4 SAMPLE	S95T000768	0		DSC-01	SOLID	N/A			Joules/g
95000057	BX-109	5 DUP	S95T000768	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 1221

5-10-95

Analyst Signature **Date**

Analyst Signature **Date**

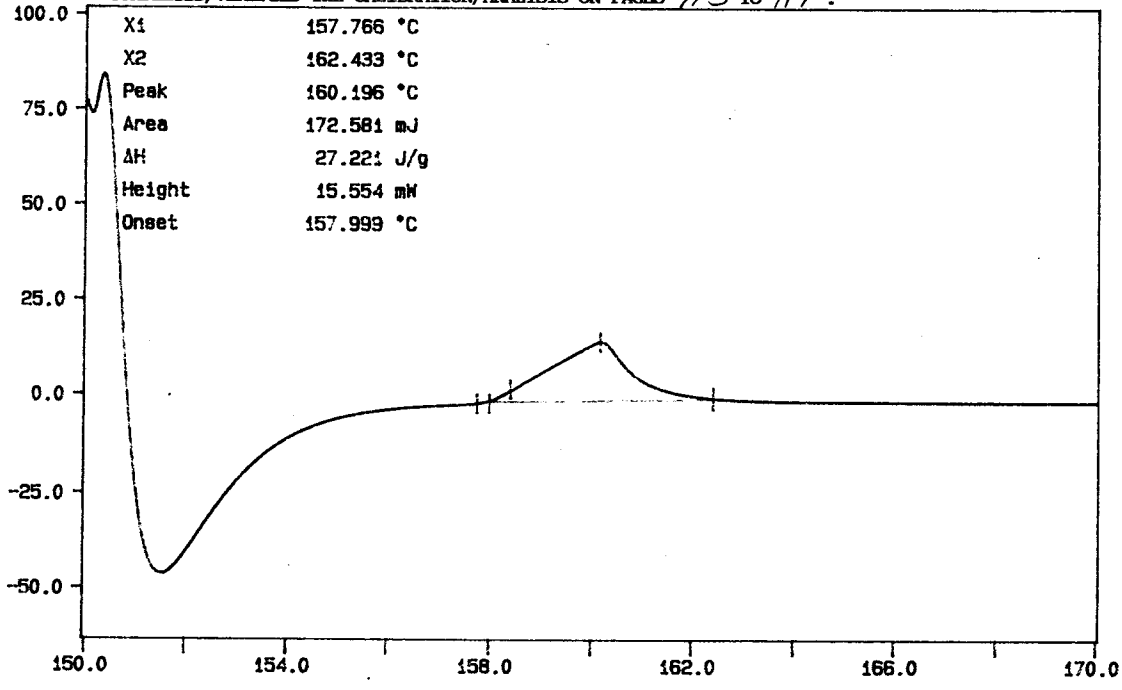
Other instrument was used.
5/11/95
BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: ind051001 Wed May 10 16:40:34 1995
Sample Weight: 6.340 mg
Indium at 10c/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 113 TO 117.



N2 exotherm down

TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

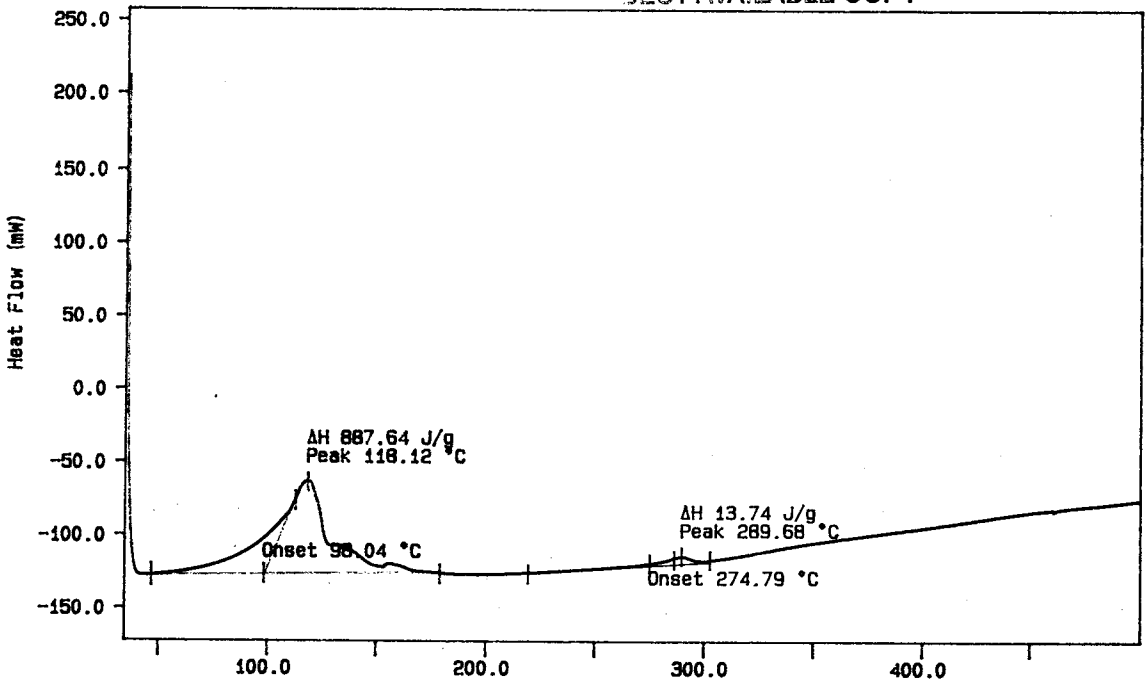
KR Monteith
PERKIN ELMER
222-S Lab
Wed May 10 16:41:45 1995

5-10-95

BEST AVAILABLE COPY

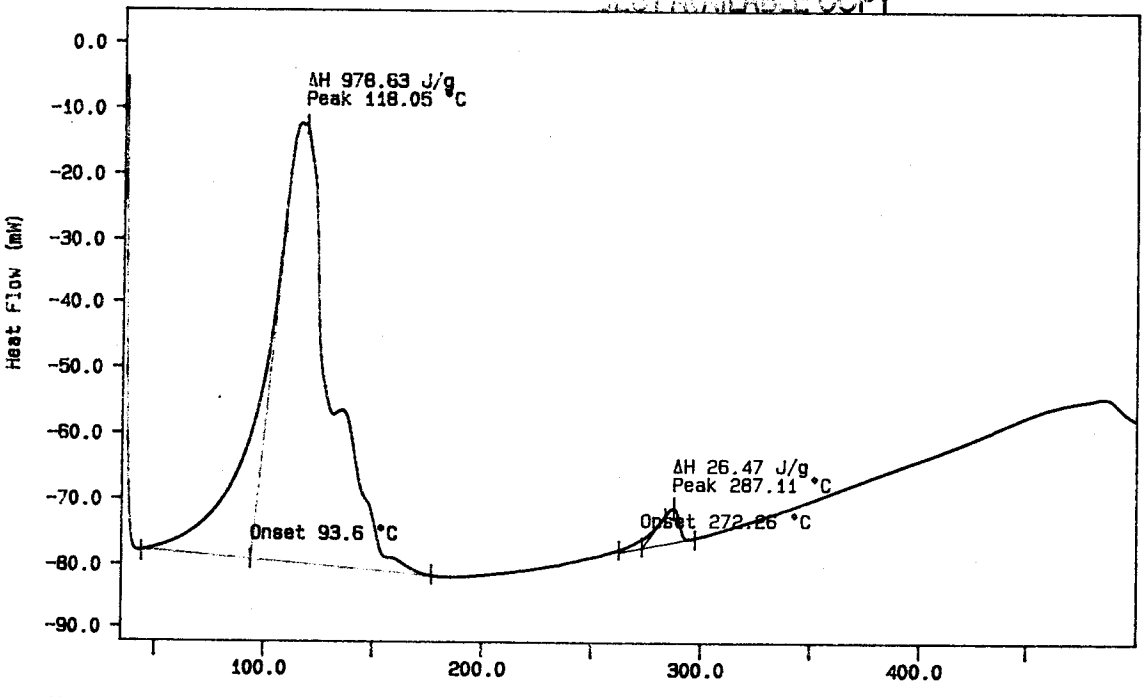
Curve 1: DSC
File info: sam051001 Wed May 10 17:48:35 1995
Sample Weight: 13.970 mg
S95T000765, 10C/min

BEST AVAILABLE COPY



Curve 1: DSC
File info: sam051002 Wed May 10 18:52:21 1995
Sample Weight: 14.320 mg
S95T000765(dup), 10C/min

BEST AVAILABLE COPY



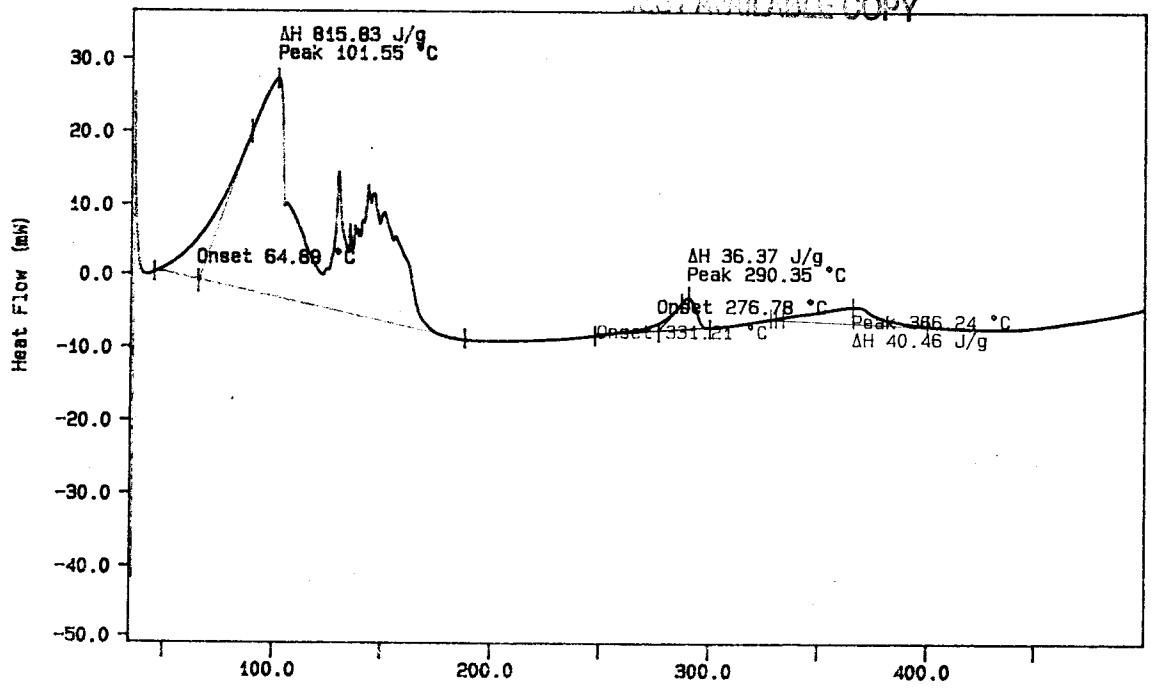
exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KA Monteith
PERKIN ELMER
222-S Lab
Wed May 10 19:03:19 1995

BEST AVAILABLE COPY

Curve 1: DSC
File info: sam051003 Wed May 10 21:44:21 1995
Sample Weight: 10.680 mg
S95T000768, 10C/min



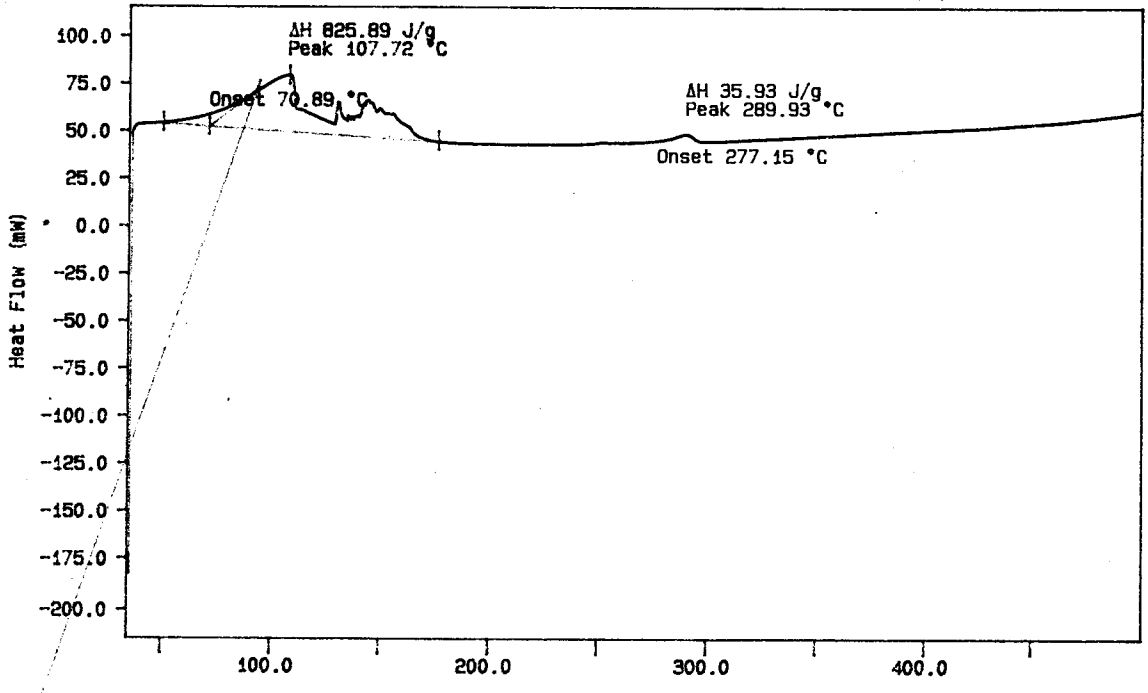
exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
PERKIN ELMER
222-S Lab
Wed May 10 22:01:09 1995

Curve 1: DSC
File info: sam051005 Wed May 10 23:20:00 1995
Sample Weight: 10.070 mg
S95T000768(dup), 10C/min

BEST AVAILABLE COPY



TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
PERKIN ELMER
222-S Lab
Wed May 10 23:20:57 1995

LABCORE Data Entry Template for Worklist# 1222

Analyst: SMF **Instrument:** DSC01 03 5/16/95 BDV **Book #** 12N14-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	27.46	N/A	Joules/g
95000057	BX-109	2 SAMPLE	S95T000771	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000057	BX-109	3 DUP	S95T000771	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
		4 STD				DSC-03	SOLID	28.45	28.44	N/A	Joules/g
95000057	BX-109	5 SAMPLE	S95T000774	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000057	BX-109	6 DUP	S95T000774	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1222

See attached for signatures 5/16/95 BDV
Analyst Signature **Date**

Gary Harmon 5-17-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/17/95

Data Entry Comments: S95T000771 produced ~~two~~ three 5/16/95 BDV endotherms, one at 102.8°C with a delta H of 845.5 J/g, ~~and~~ 5/16/95 BDV second at 290.1°C with a delta H of 21.9 J/g and third at 379.2°C with a delta H of 139.2 J/g. S95T000774 produced two endotherms one at 108.2°C with a delta H of 994.9 J/g and second at 292.3°C with a delta H of 24.68 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1222

Analyst: SMF **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-514-~~113~~ 114 Rev/Mod B-0

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID			N/A	Joules/g
95000057	BX-109	2 SAMPLE	S95T000771	0		DSC-01	SOLID	N/A			Joules/g
95000057	BX-109	3 DUP	S95T000771	0		DSC-01	SOLID			N/A	Joules/g
95000057	BX-109	4 SAMPLE	S95T000774	0		DSC-01	SOLID	N/A			Joules/g
95000057	BX-109	5 DUP	S95T000774	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 1222

Susie M. Fulton 5-15-95
Analyst Signature **Date**

Analyst Signature **Date**

Pam M. Mitchell 5-15-95

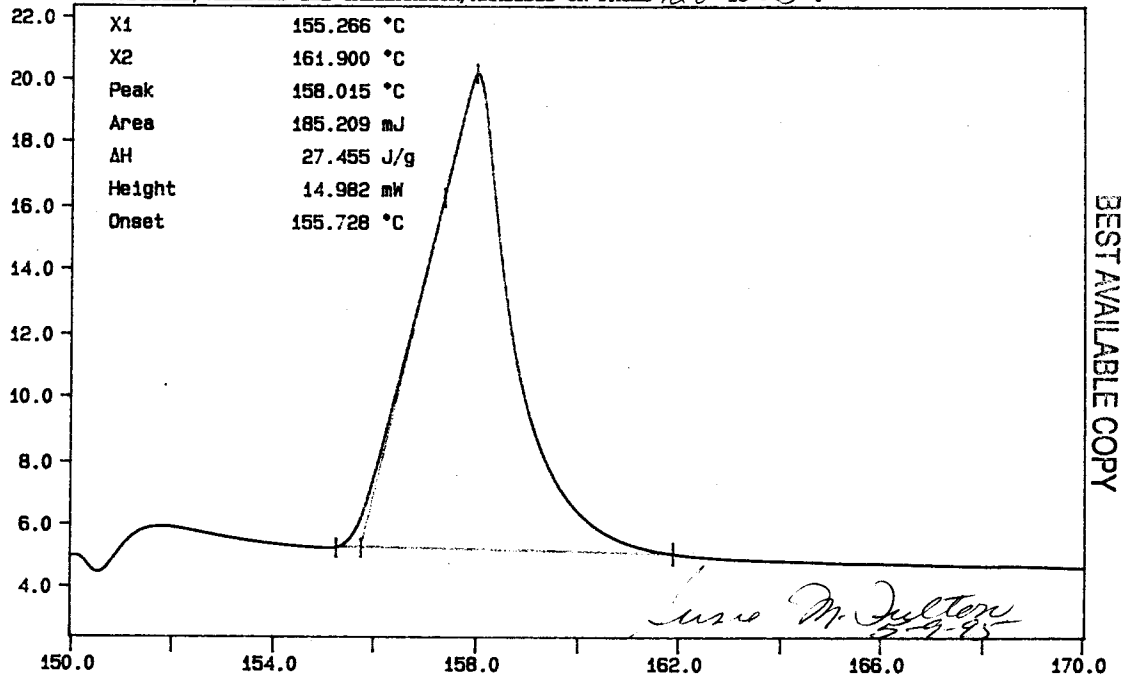
Other instrument was used
5/16/95
BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND050901 Tue May 9 08:22:38 1995
Sample Weight: 6.746 mg
Indium at 10c/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 120 TO 125.



120

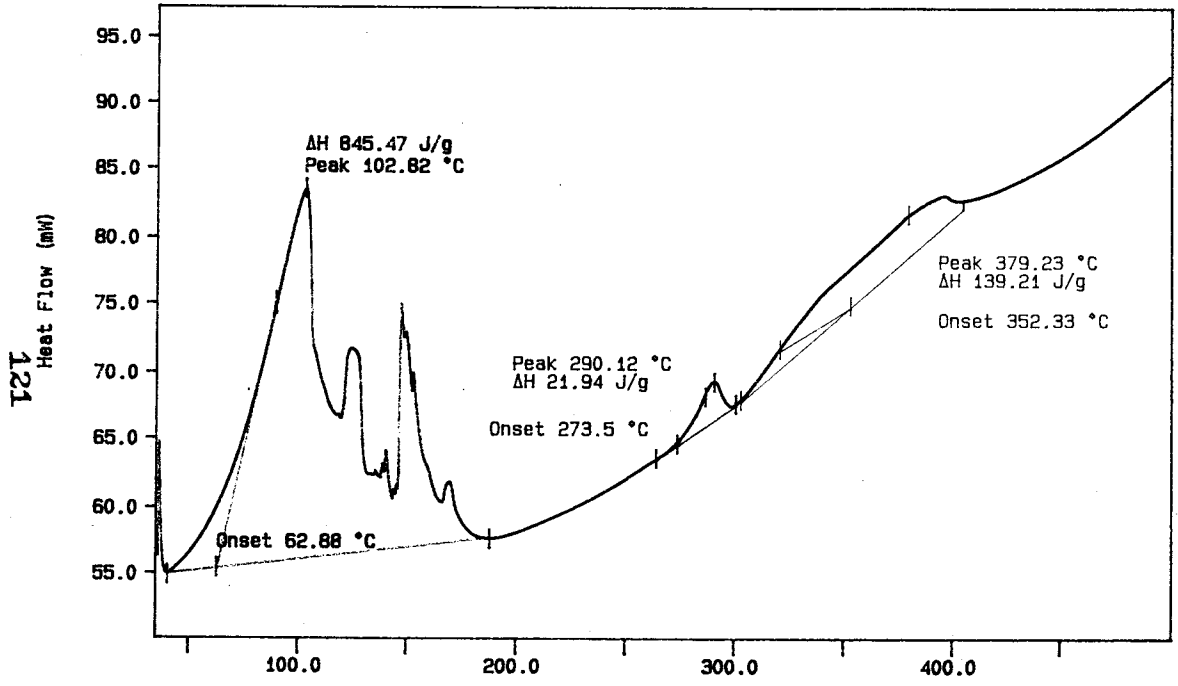
N2 exotherm down
Temperature (°C)
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

SM FULTON
Westinghouse Hanford Co.
222-S Lab
Tue May 9 08:23:56 1995

BEST AVAILABLE COPY

Curve 1: DSC
File info: SAM050901 Tue May 9 09:43:11 1995
Sample Weight: 9.460 mg
S95T000771, 10C/min

BEST AVAILABLE COPY

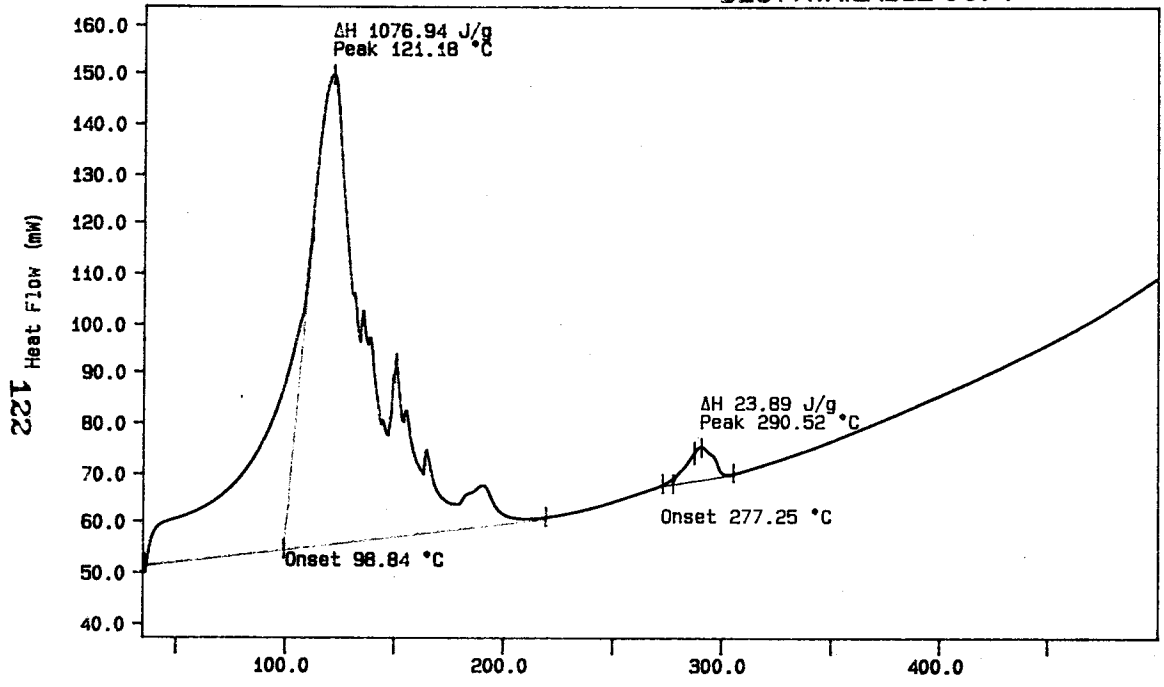


TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Tue May 9 10:05:50 1995

Curve 1: DSC
File info: SAM050902 Tue May 9 13:44:27 1995
Sample Weight: 22.630 mg
S95T000771(DUP). 10C/min

BEST AVAILABLE COPY



122

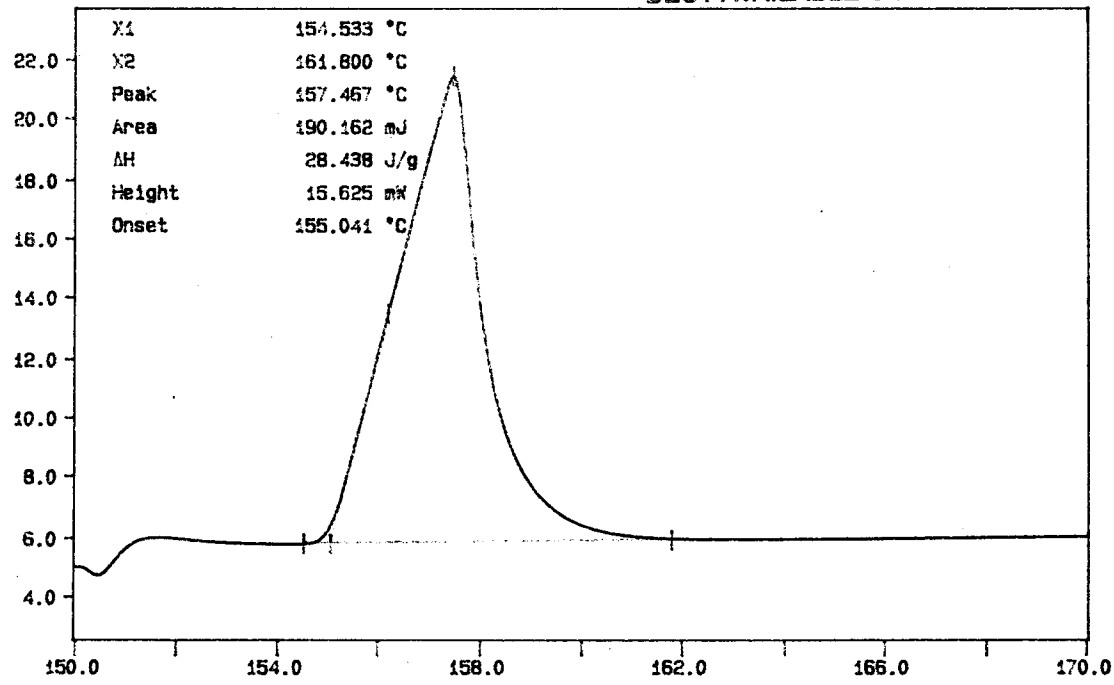
exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Tue May 9 13:46:46 1995

Curve 1: DSC
File info: ind051501 Mon May 15 00:48:46 1995
Sample Weight: 6.687 mg
Indium at 10c/min

BEST AVAILABLE COPY



N2 exotherm down

TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

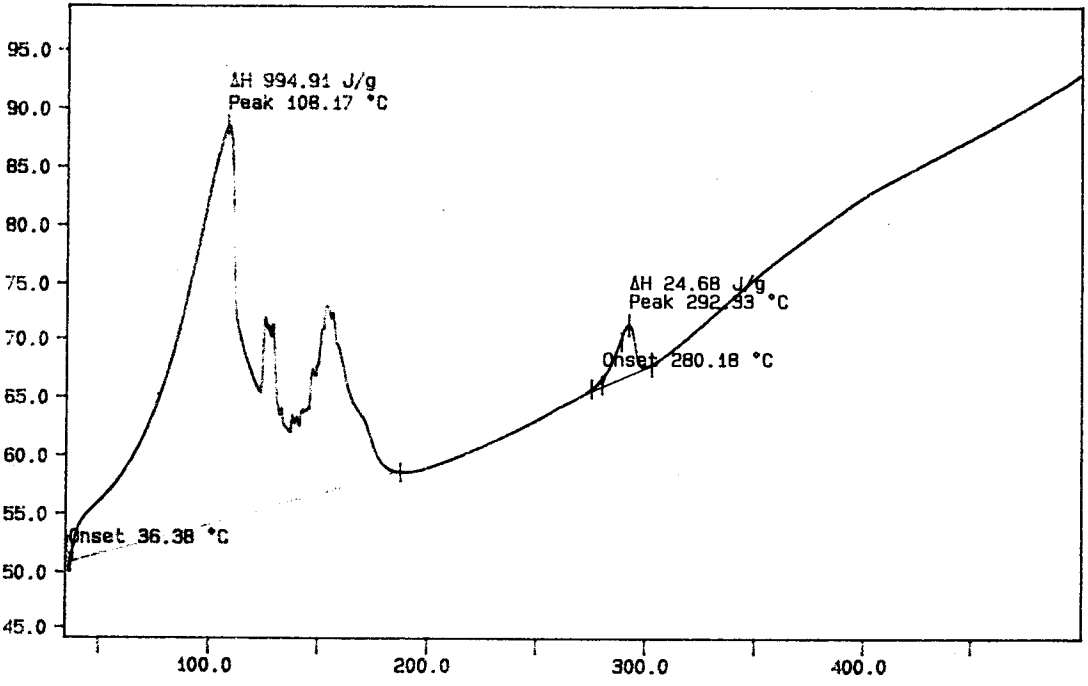
KR Monteith
PERKIN ELMER
222-S Lab
Mon May 15 00:54:03 1995

5-15-95

123

Curve 1: DSC
File info: sam051501 Mon May 15 04:05:44 1995
Sample Weight: 10.550 mg
S95T000774, 10C/min

BEST AVAILABLE COPY



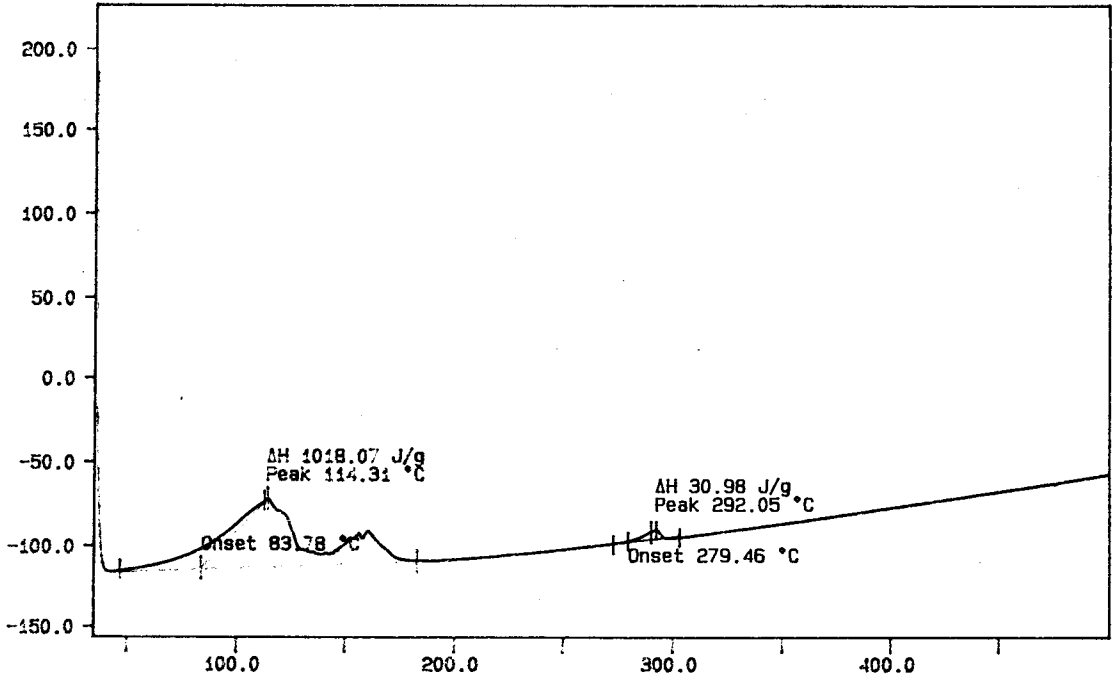
exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
PERKIN ELMER
222-S Lab
Mon May 15 04:58:35 1995

Curve 1: DSC
File info: sam051502 Mon May 15 06:08:44 1995
Sample Weight: 10.740 mg
S95T000774(dup), 10C/min

BEST AVAILABLE COPY



TEMP1: 38.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KH Monteith
PERKIN ELMER
222-S Lab
Mon May 15 06:13:05 1995

LABCORE Data Entry Template for Worklist# 1223

Analyst: KRM **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	5/11/95 BDV 28.45 26.6	26.6	N/A	Joules/g
95000057	BX-109	2 SAMPLE	S95T000777	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000057	BX-109	3 DUP	S95T000777	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000059	BX-109	4 SAMPLE	S95T000780	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000059	BX-109	5 DUP	S95T000780	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1223

5-10-95
Analyst Signature **Date**

5-12-95
Analyst Signature **Date**

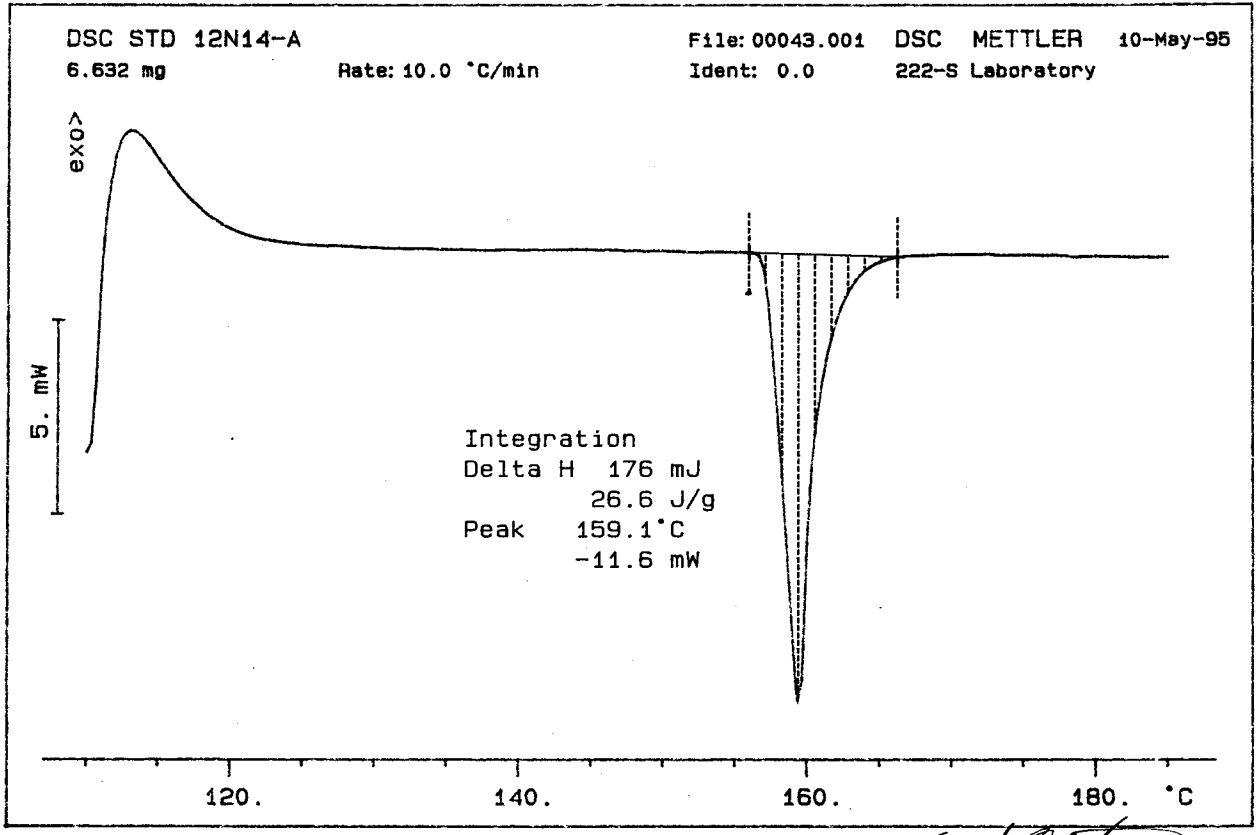
Verified by Blandina Valenzuela 5/15/95

S95T000777 produced two endotherms one at 105.4C with a delta H of 1183.7 J/g and second at 291.0C with a delta H of 52.5 J/g.

Data Entry Comments: S95T000780 produced two endotherms one at 115.4C with a delta H of 1285.1 J/g and second at 283.1C with a delta H of ~~58.7~~ 5/15/95 BDV 59.3 J/g.

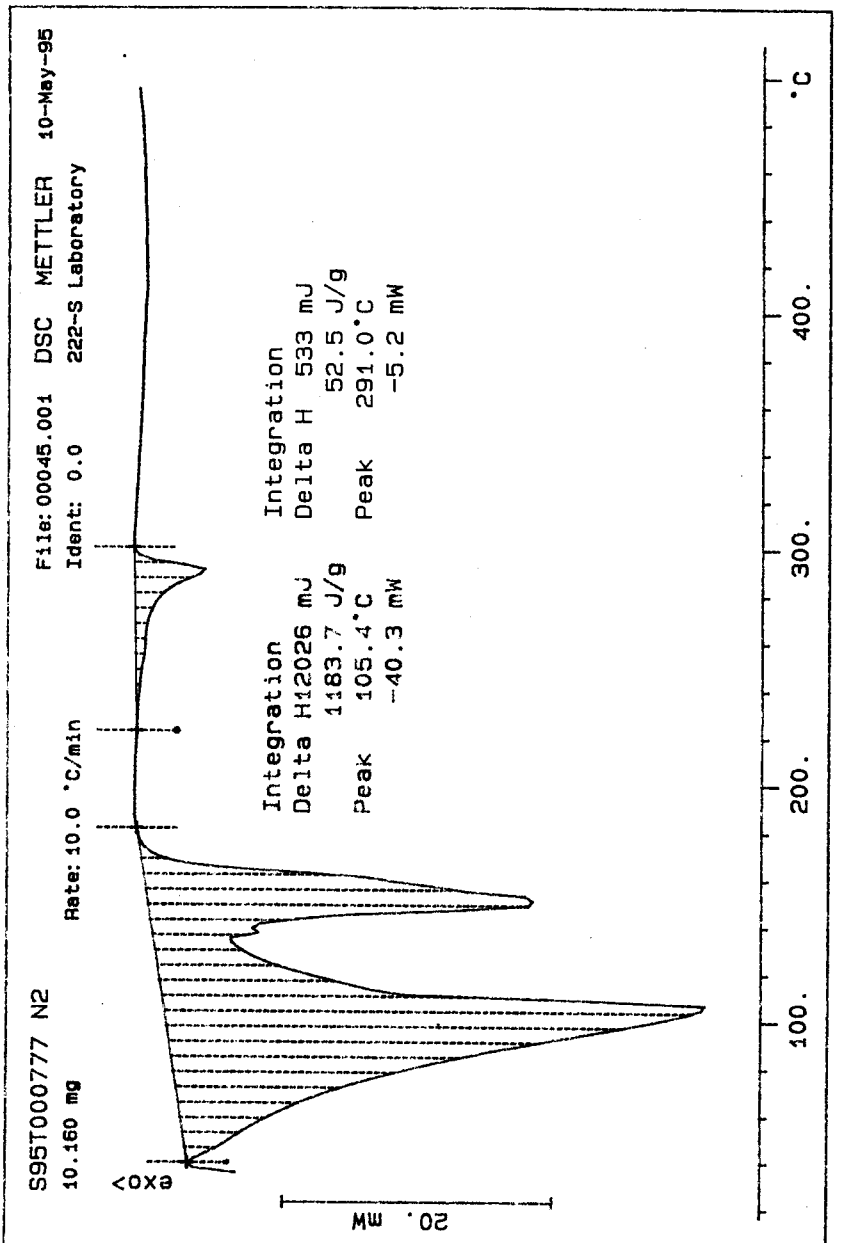
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 127 TO 131.

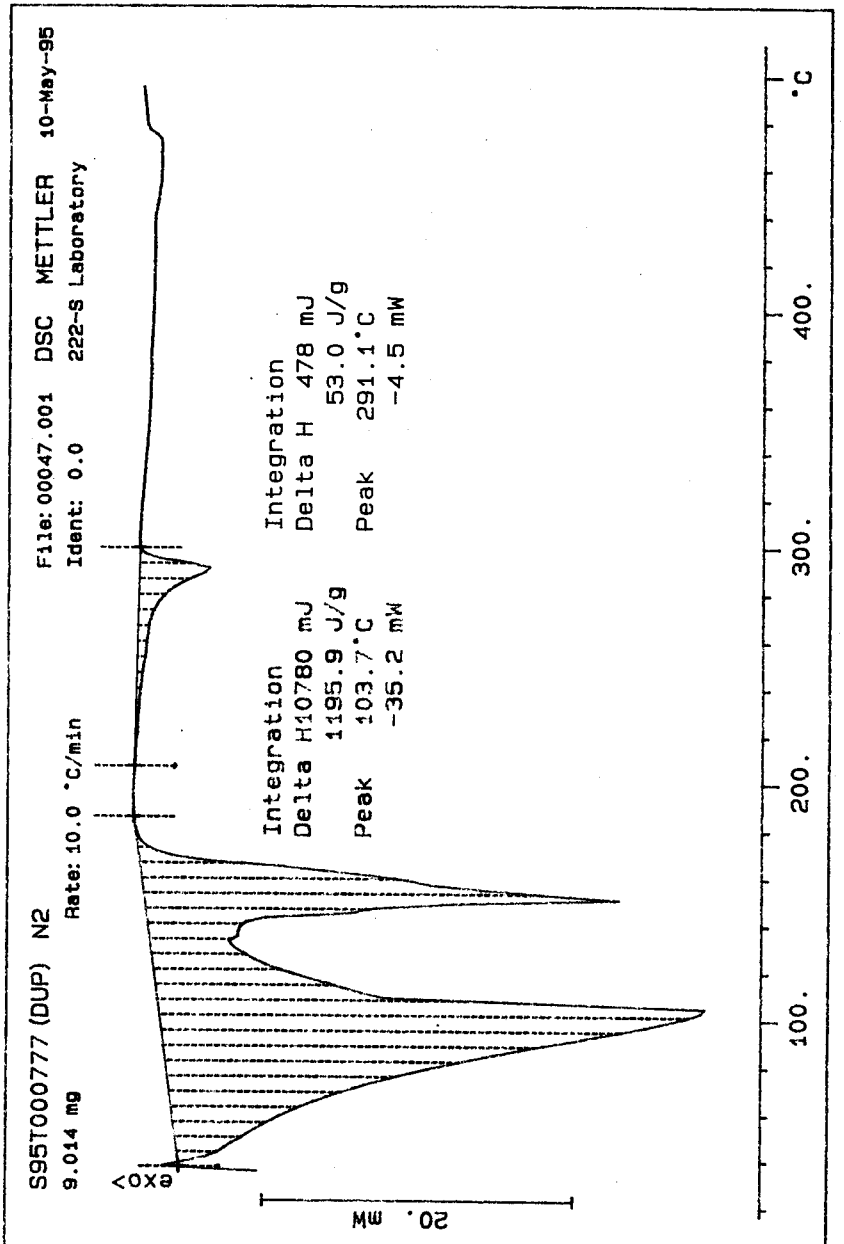


5-10-95

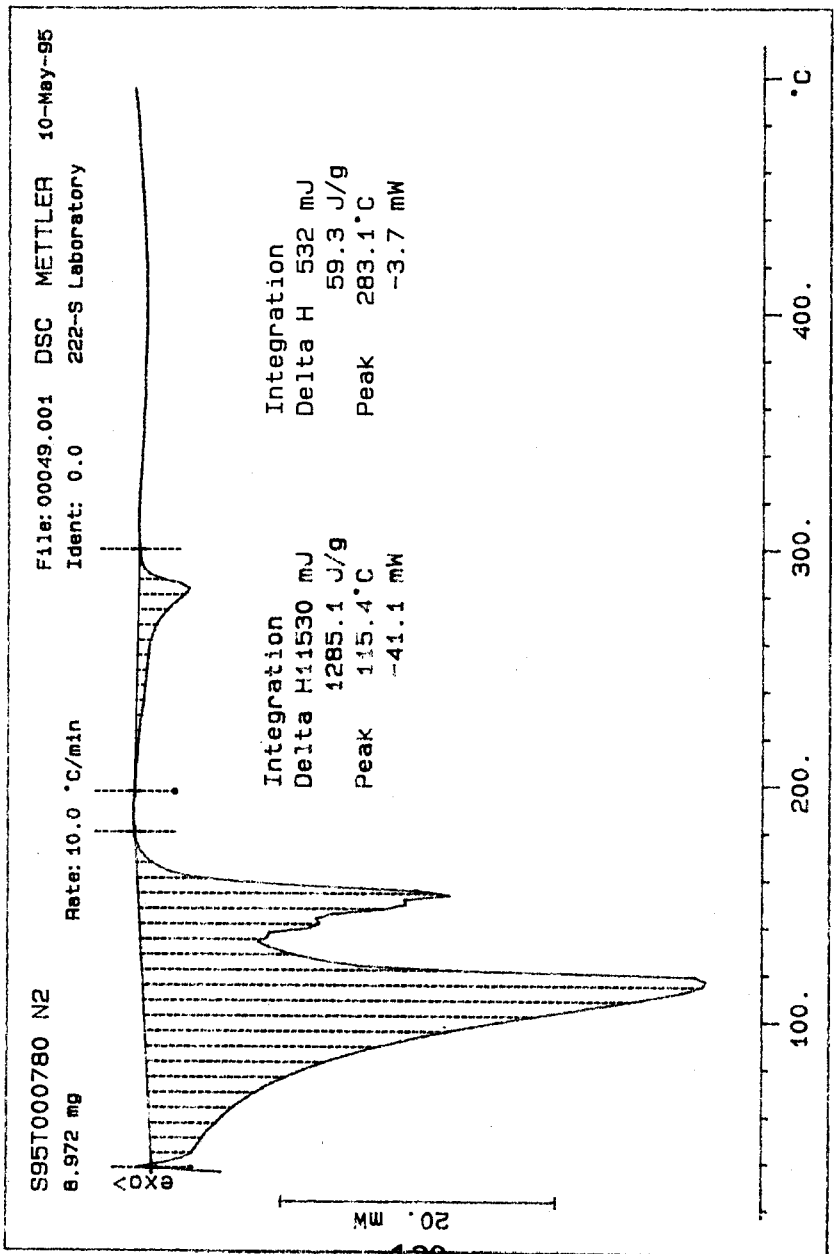
BEST AVAILABLE COPY



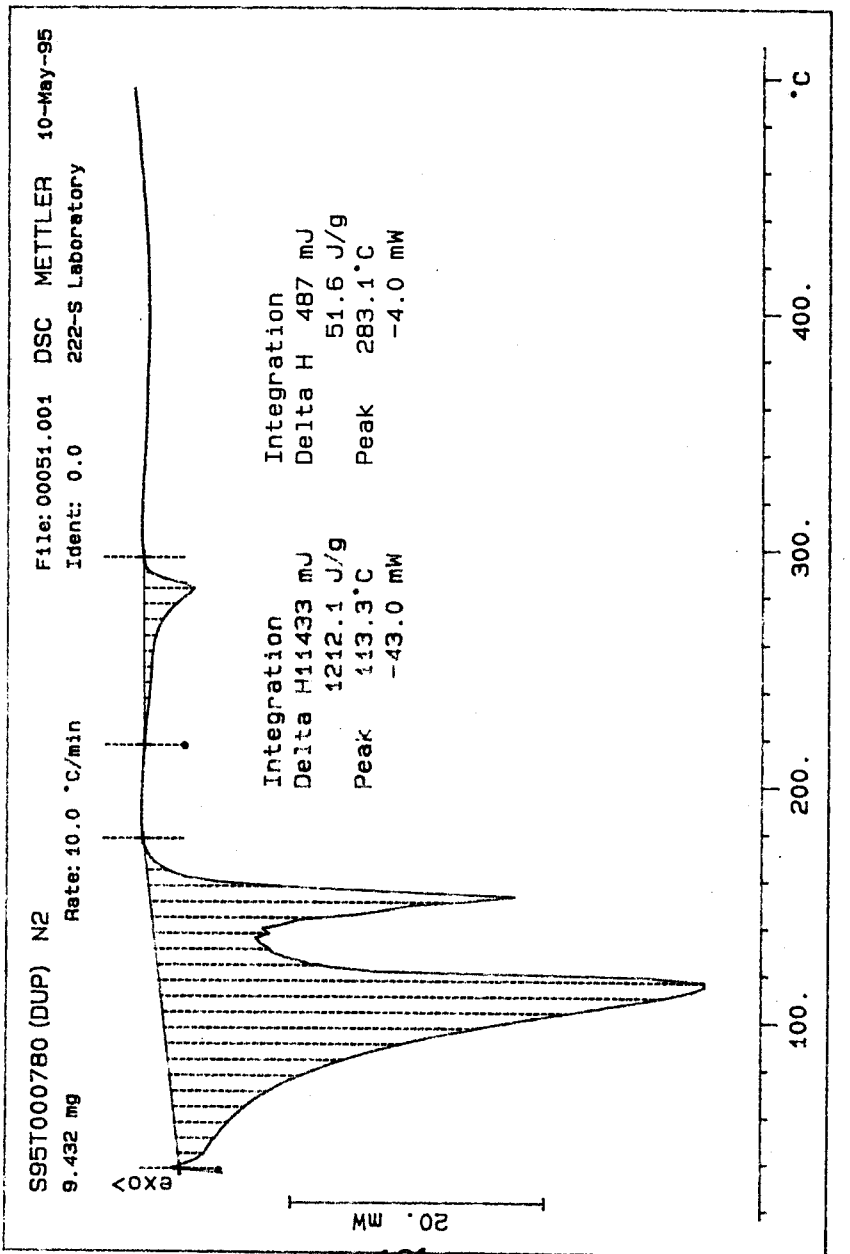
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 1224

Analyst: DCD **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-514-113 Rev/Mod ~~A-2~~ 12/29/95 BDV B-1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	29.0	N/A	Joules/g
95000059	BX-109	2 SAMPLE	S95T000786	0		DSC-01	SOLID	N/A	Ø		Joules/g
		3 STD				DSC-01	SOLID	~~Ø~~ 28.45 5/16/95 BDV	30.1	N/A	Joules/g
95000059	BX-109	4 DUP	S95T000786	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000059	BX-109	5 SAMPLE	S95T000789	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000059	BX-109	6 DUP	S95T000789	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1224

See attached for signatures 5/16/95 BDV
Analyst Signature **Date**

Analyst Signature 5-16-95 **Date**

Verified by Blandina Valenzuela 5/17/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1224

Analyst: DCD **Instrument:** DSC01 ~~wc16134~~ 5/16/95 BDV **Book #** 12N14-A

Method: LA-514-113 Rev/Mod ~~A-2~~ A-3

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID			N/A	Joules/g
95000059	BX-109	2 SAMPLE	S95T000786	0		DSC-01	SOLID	N/A			Joules/g
95000059	BX-109	3 DUP	S95T000786	0		DSC-01	SOLID			N/A	Joules/g
95000059	BX-109	4 SAMPLE	S95T000789	0		DSC-01	SOLID	N/A			Joules/g
95000059	BX-109	5 DUP	S95T000789	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 1224

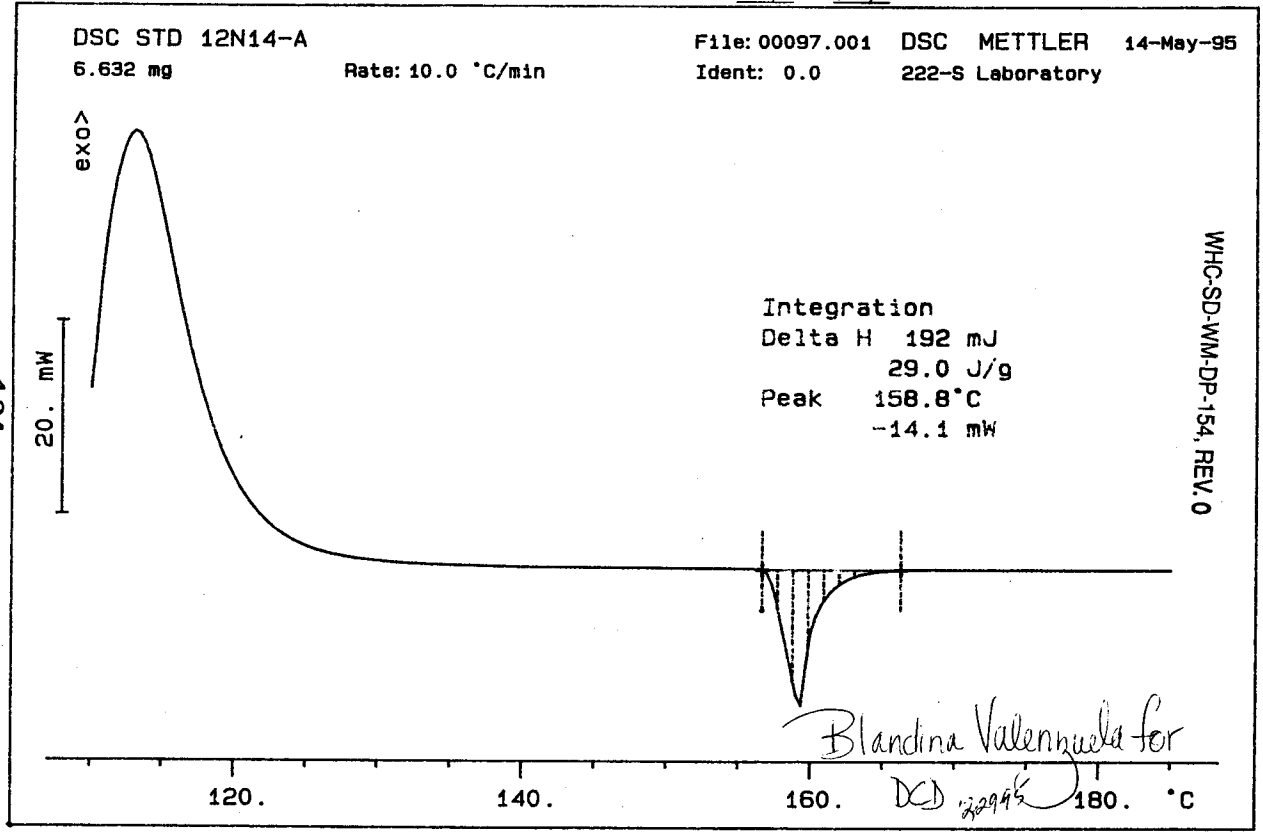
David C Dunham 5-16-95
Analyst Signature **Date**

Analyst Signature **Date**

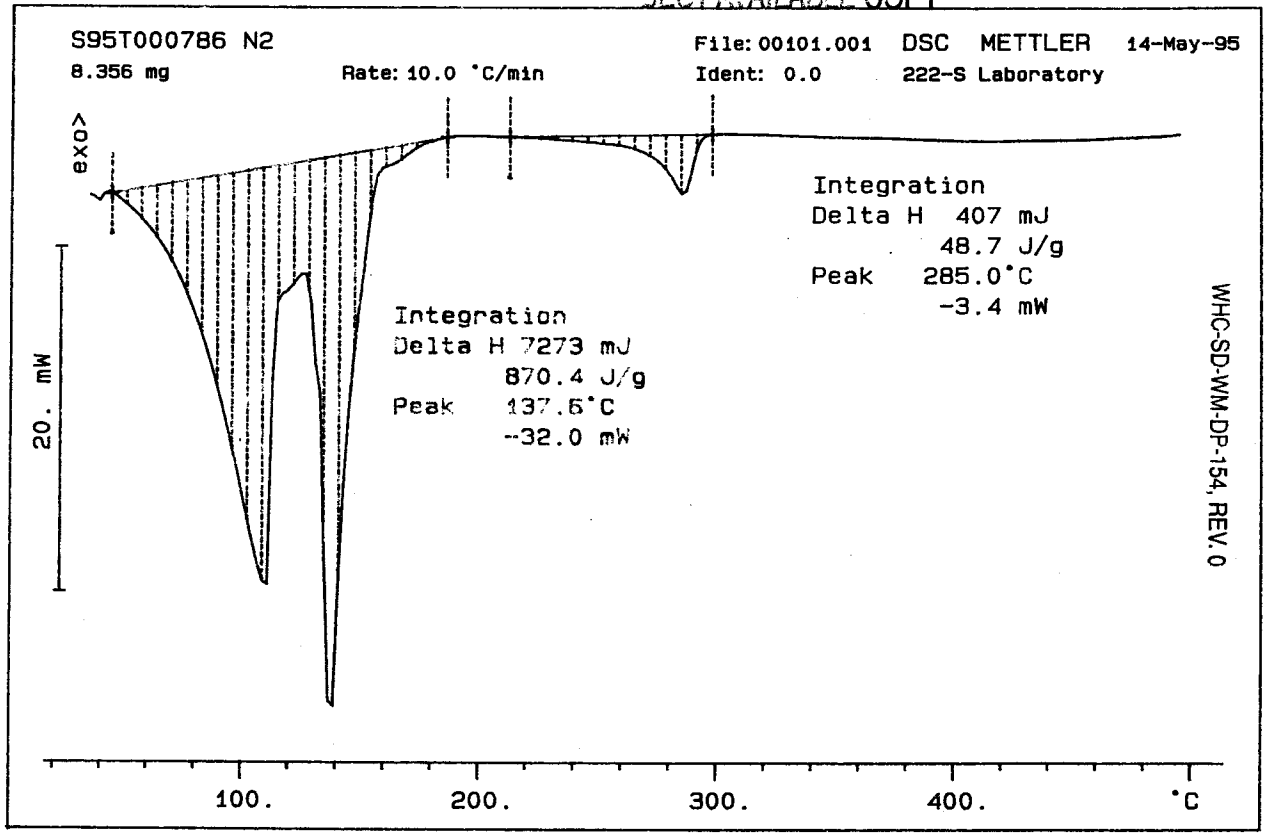
Data Entry Comments: Both samples are a reddish-brown paste.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

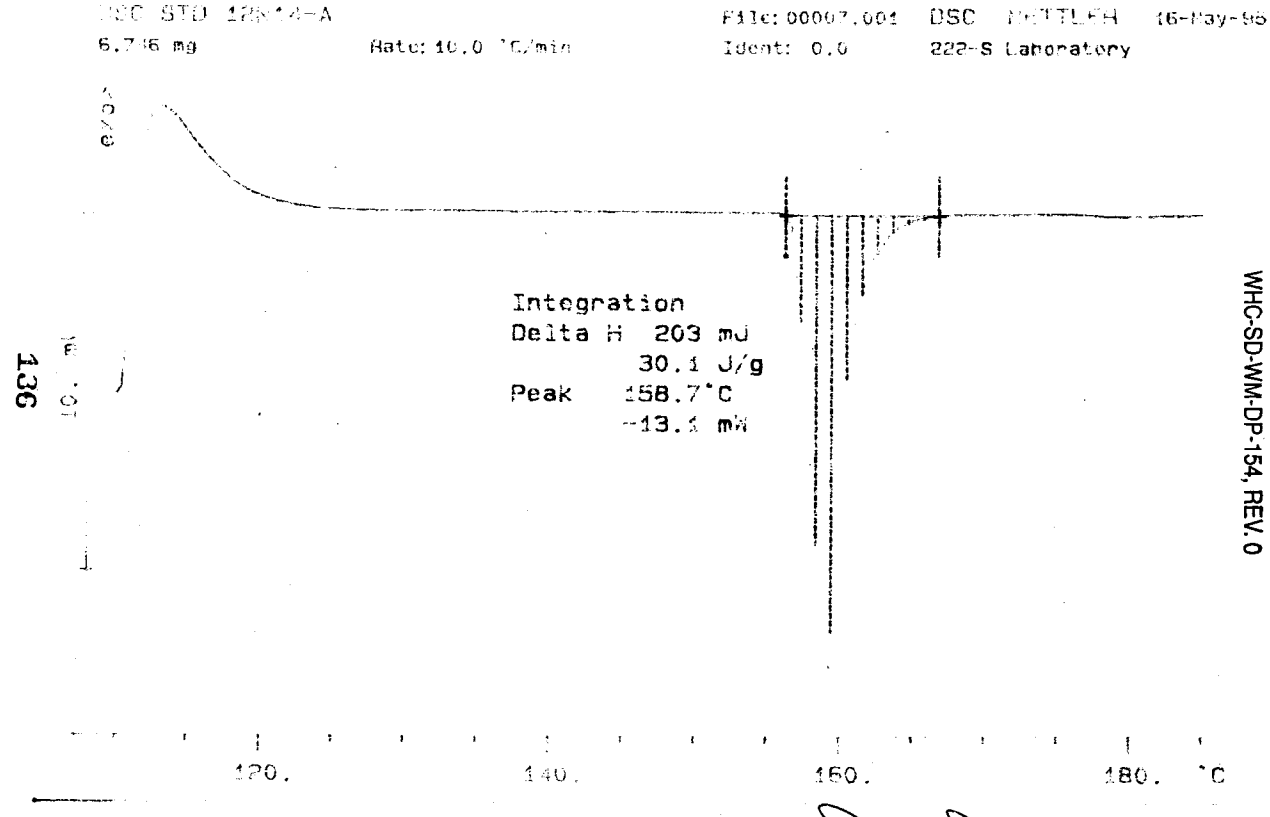
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 139 TO 139.



BEST AVAILABLE COPY



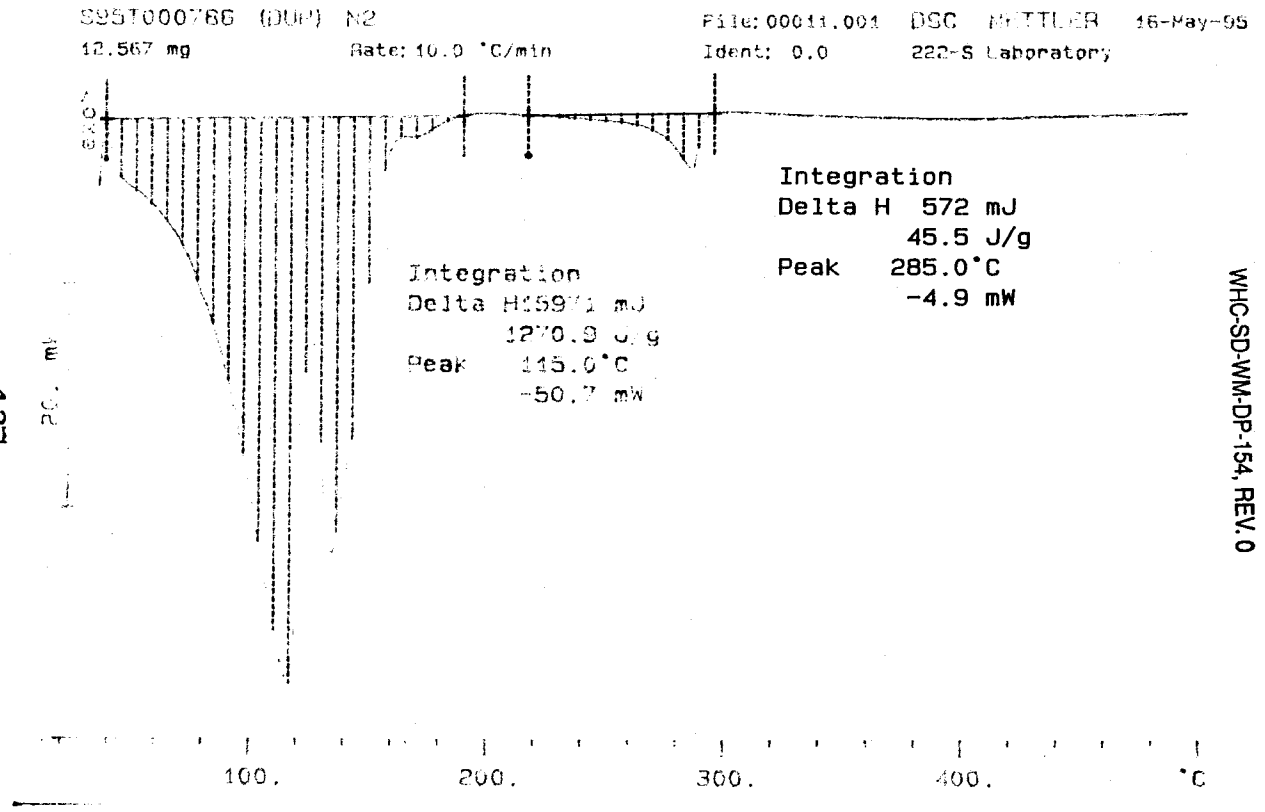
BEST AVAILABLE COPY



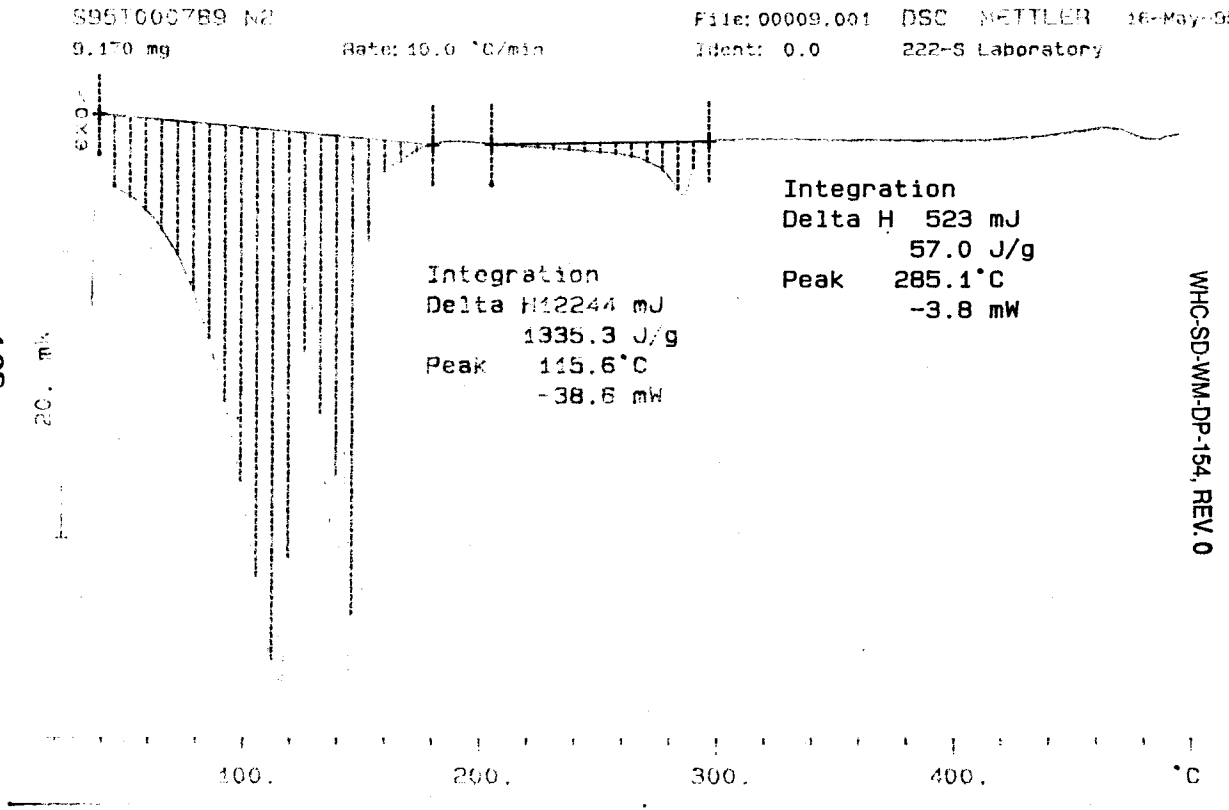
Daniel Dunham 5-16-95

WHC-SD-WM-DP-154, REV. 0

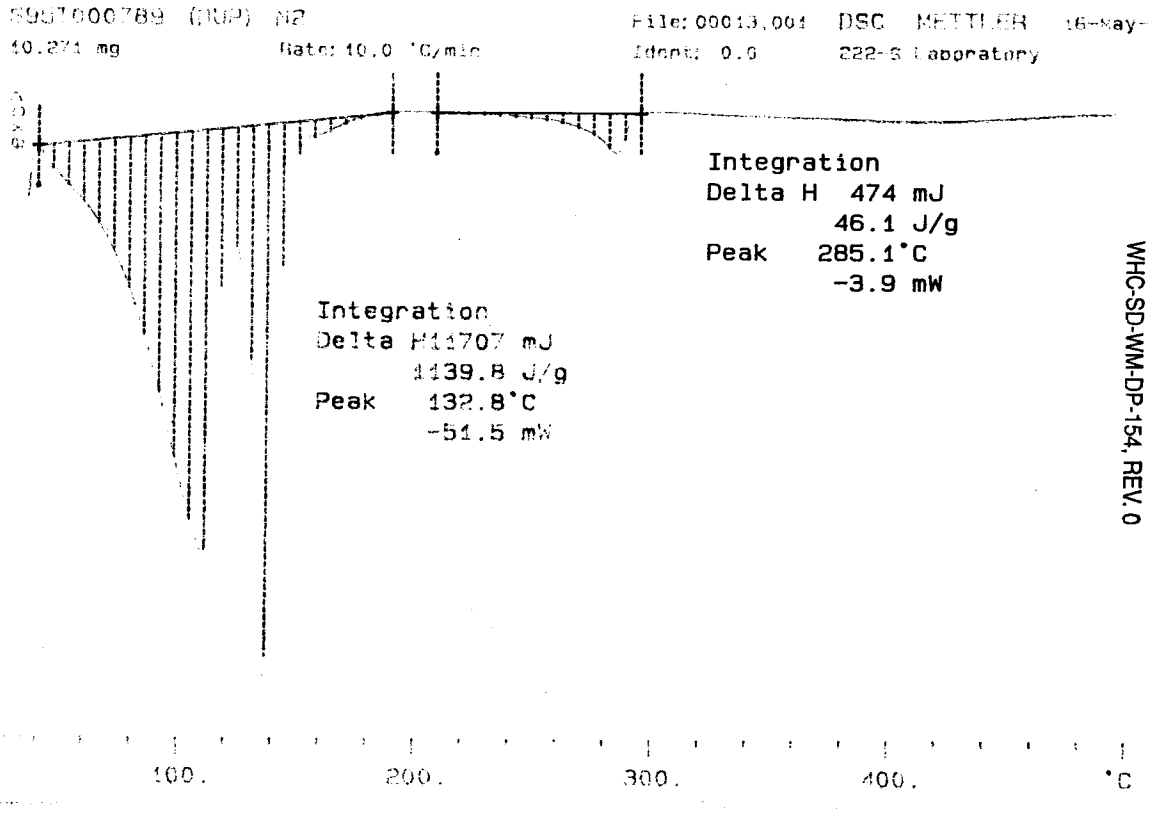
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 1226

Analyst: SMF **Instrument:** DSC01 **Book #** 12N14-7

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	28.6	N/A	Joules/g
95000059	BX-109	2 SAMPLE	S95T000836	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000059	BX-109	3 DUP	S95T000836	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000059	BX-109	4 SAMPLE	S95T000839	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000059	BX-109	5 DUP	S95T000839	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1226

Susie M. Sutton 5-12-95
Analyst Signature **Date**

5-12-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/17/95

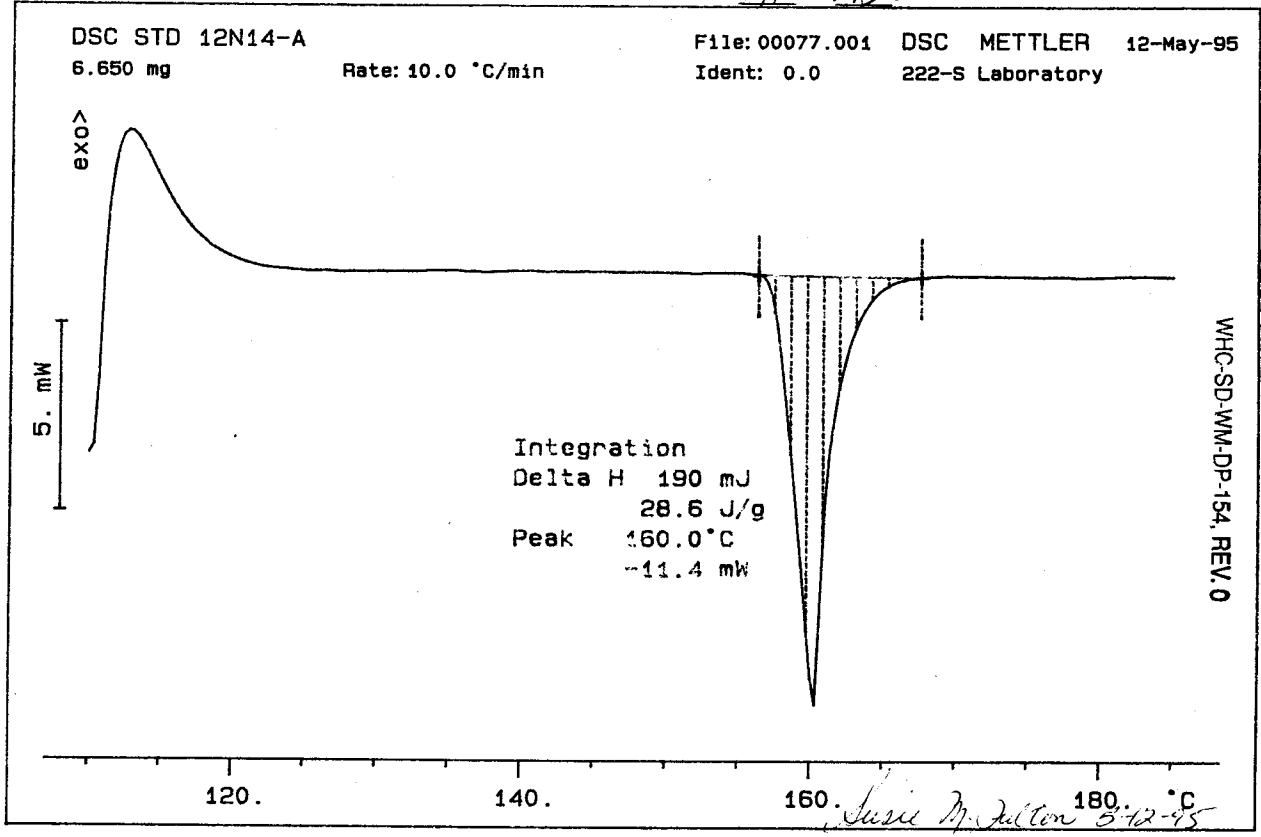
S95T000836 produced two endotherms one at 120.5°C with a delta H of 1166.8 J/g, and the second at 287.0°C with a delta H of 32.1 J/g. S95T000839 produced two endotherms, one at 119.3°C with a delta H of 1137.9 J/g and second at 284.8°C with a delta H of 32.3 J/g.

Data Entry Comments:

Both samples are a soft creamy Med brown mud

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

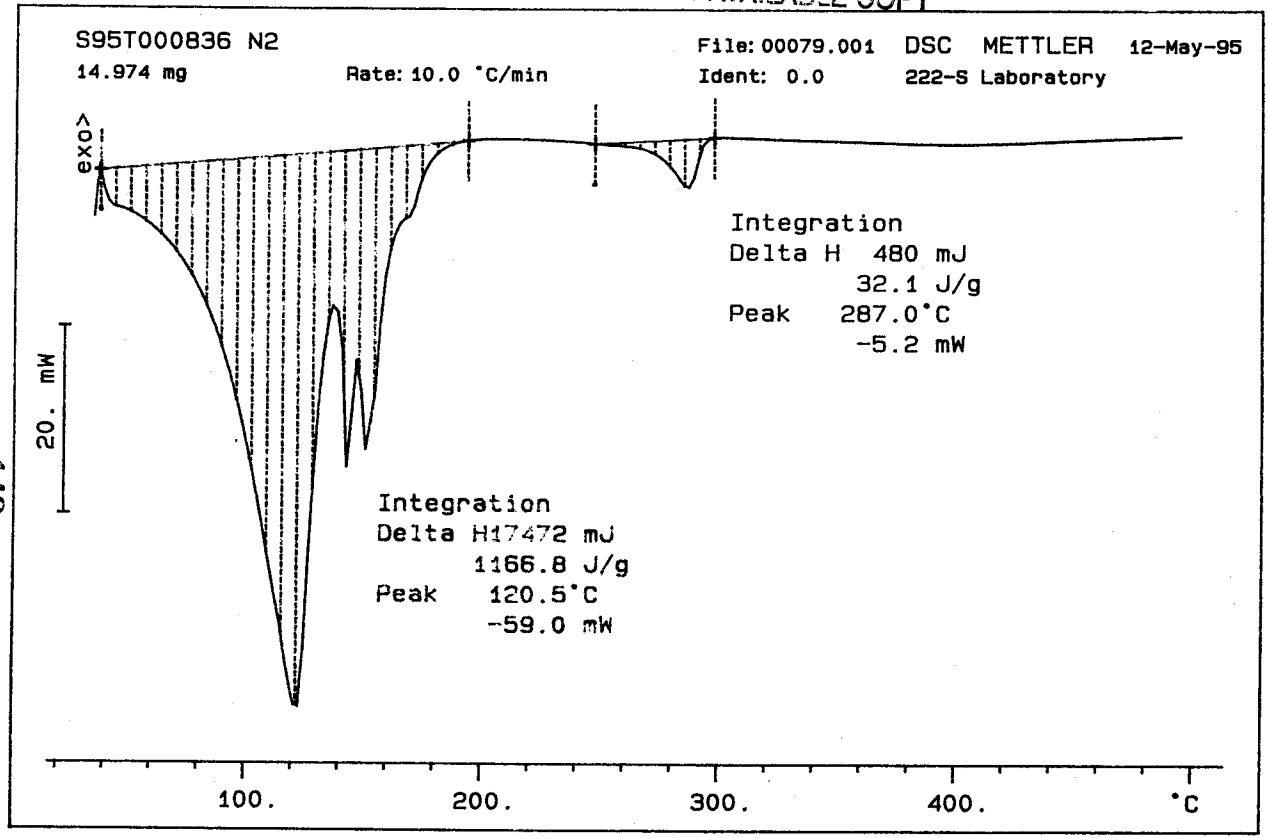
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 141 TO 145.



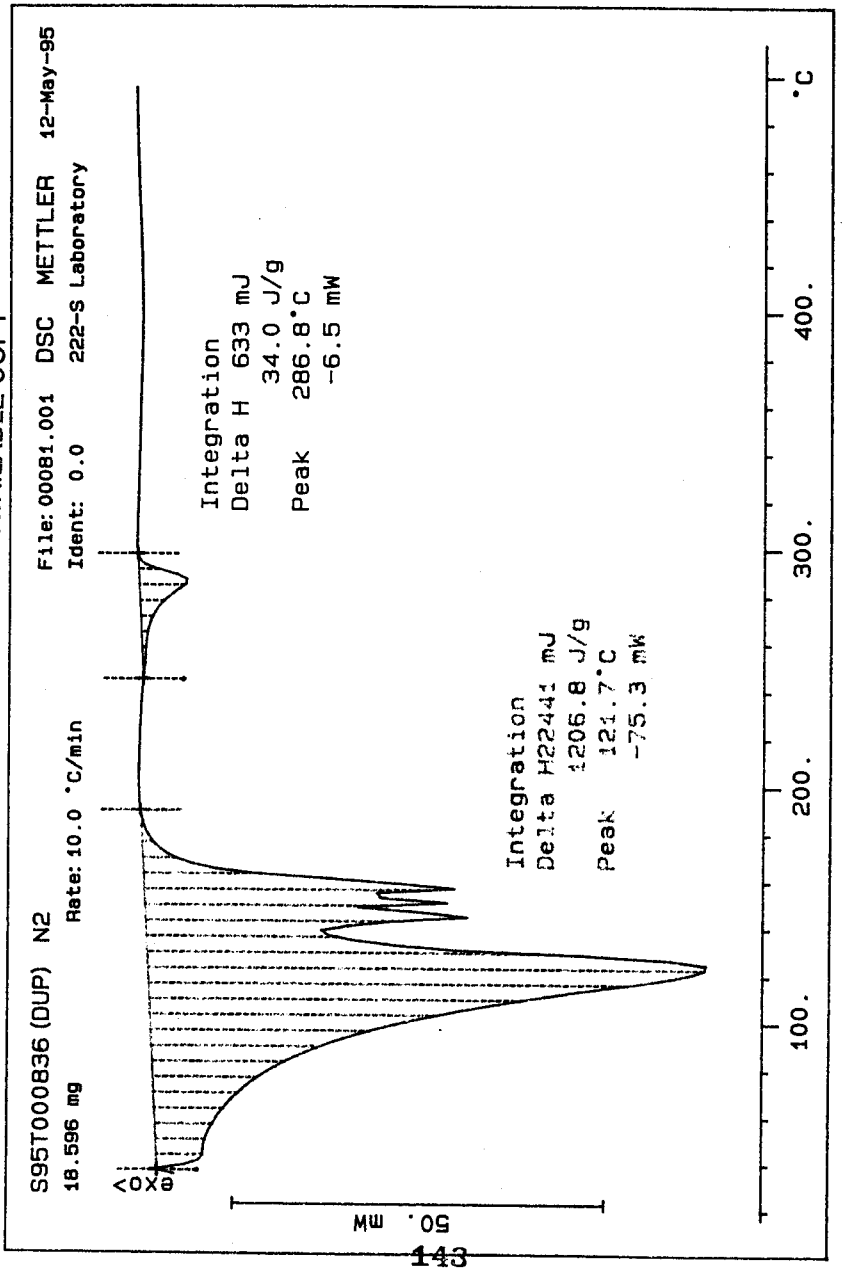
Susie M. Dalton 5-12-95

BEST AVAILABLE COPY

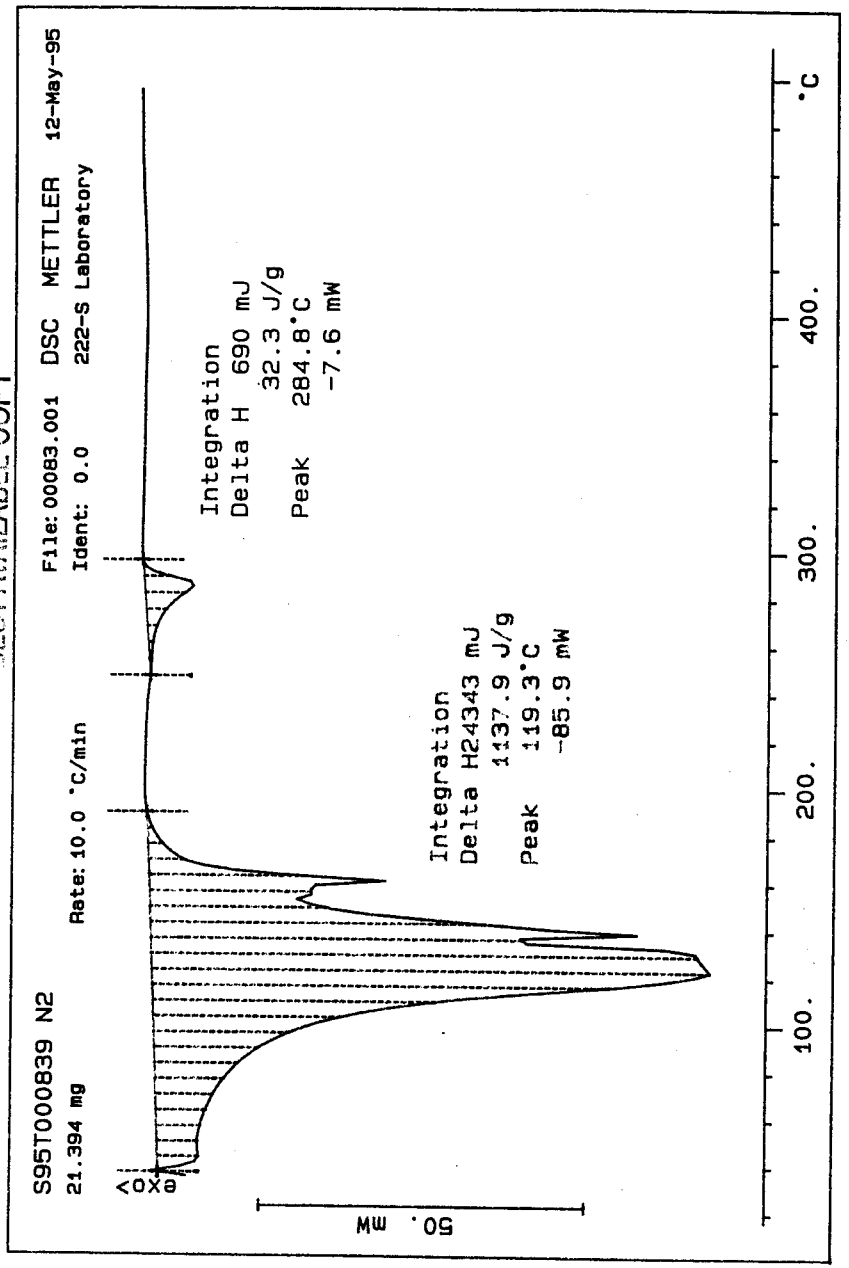
BEST AVAILABLE COPY



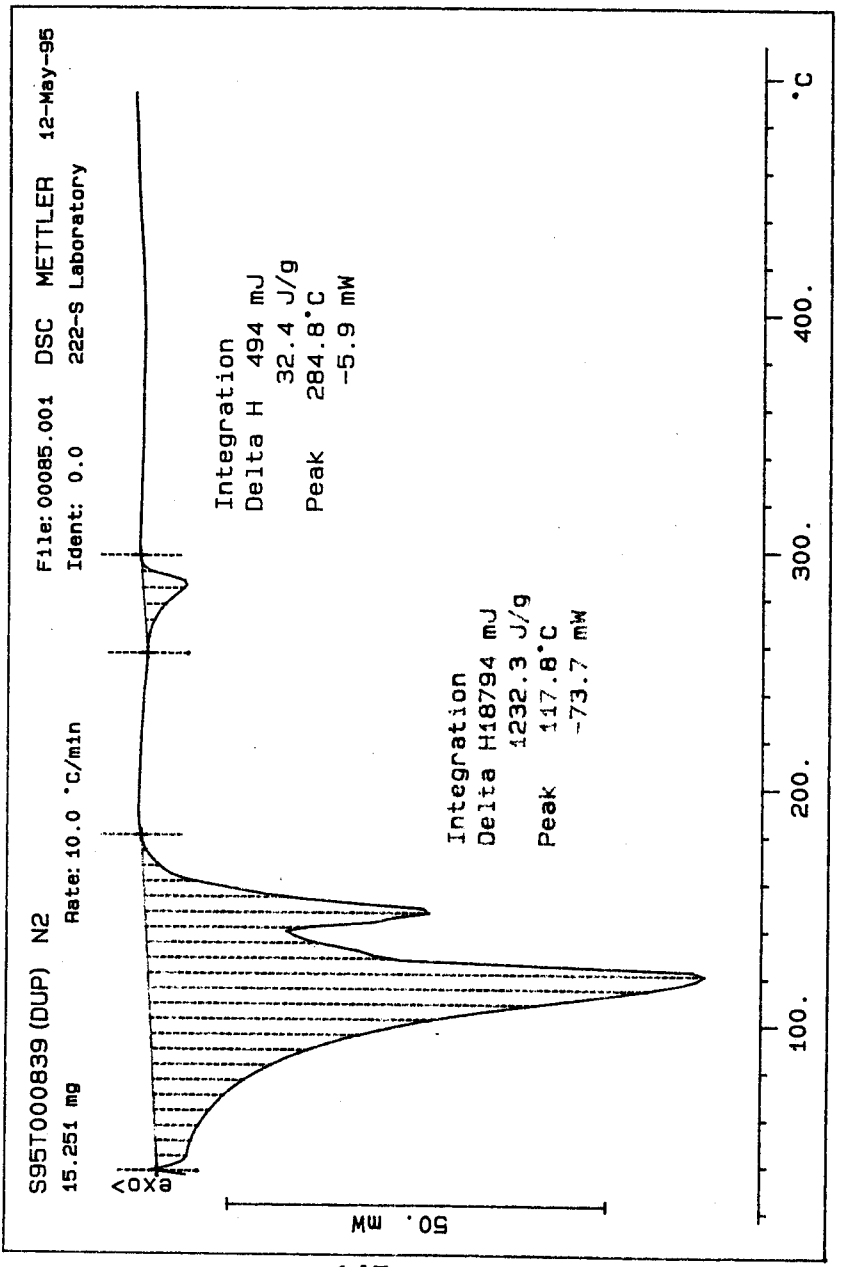
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 1228

Analyst: SMF **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	30.7	N/A	Joules/g
95000059	BX-109	2 SAMPLE	S95T000847	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000059	BX-109	3 DUP	S95T000847	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
		4 STD				DSC-01	SOLID	28.45	29.8	N/A	Joules/g
95000059	BX-109	5 SAMPLE	S95T000850	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000059	BX-109	6 DUP	S95T000850	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1228

See attached for Signatures 5/22/95 BDV
Analyst Signature **Date**

Analyst Signature 5-22-95 **Date**

Verified by Blandina Valenzuela 5/22/95

Data Entry Comments: S95T000847 produced two endotherms one at 115.9°C with a delta H of 1049 J/g and second at 285°C with a delta H of 34.5 J/g. S95T000850 produced two endotherms one at 119.3°C with a delta H of 1156.6 J/g and second at 284.7°C with a delta H of 31.5 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1228

Analyst: SMF **Instrument:** DSC01 **Book #** 12 N14-A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID			N/A	Joules/g
95000059	BX-109	2 SAMPLE	S95T000847	0		DSC-01	SOLID	N/A			Joules/g
95000059	BX-109	3 DUP	S95T000847	0		DSC-01	SOLID			N/A	Joules/g
95000059	BX-109	4 SAMPLE	S95T000850	0		DSC-01	SOLID	N/A			Joules/g
95000059	BX-109	5 DUP	S95T000850	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 1228

Susie M. Sutton 5-18-95
Analyst Signature **Date**

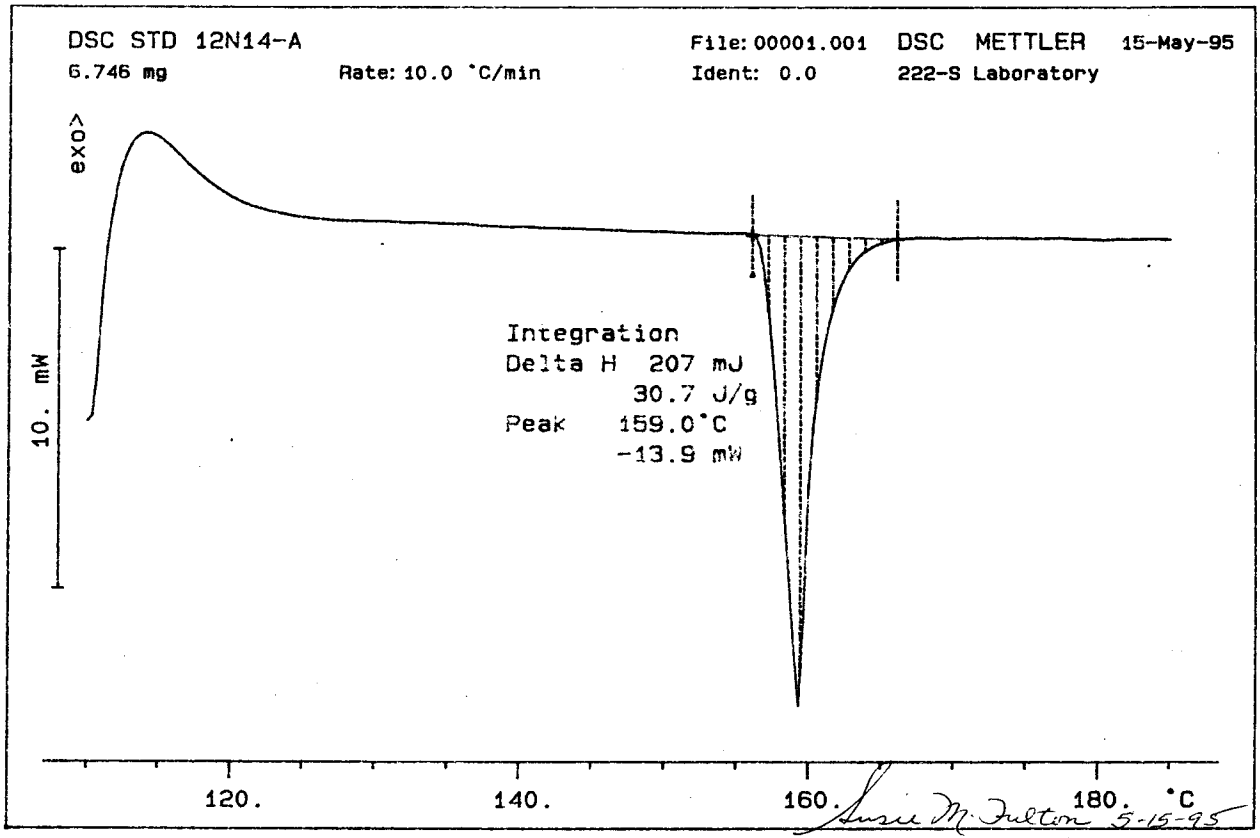
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

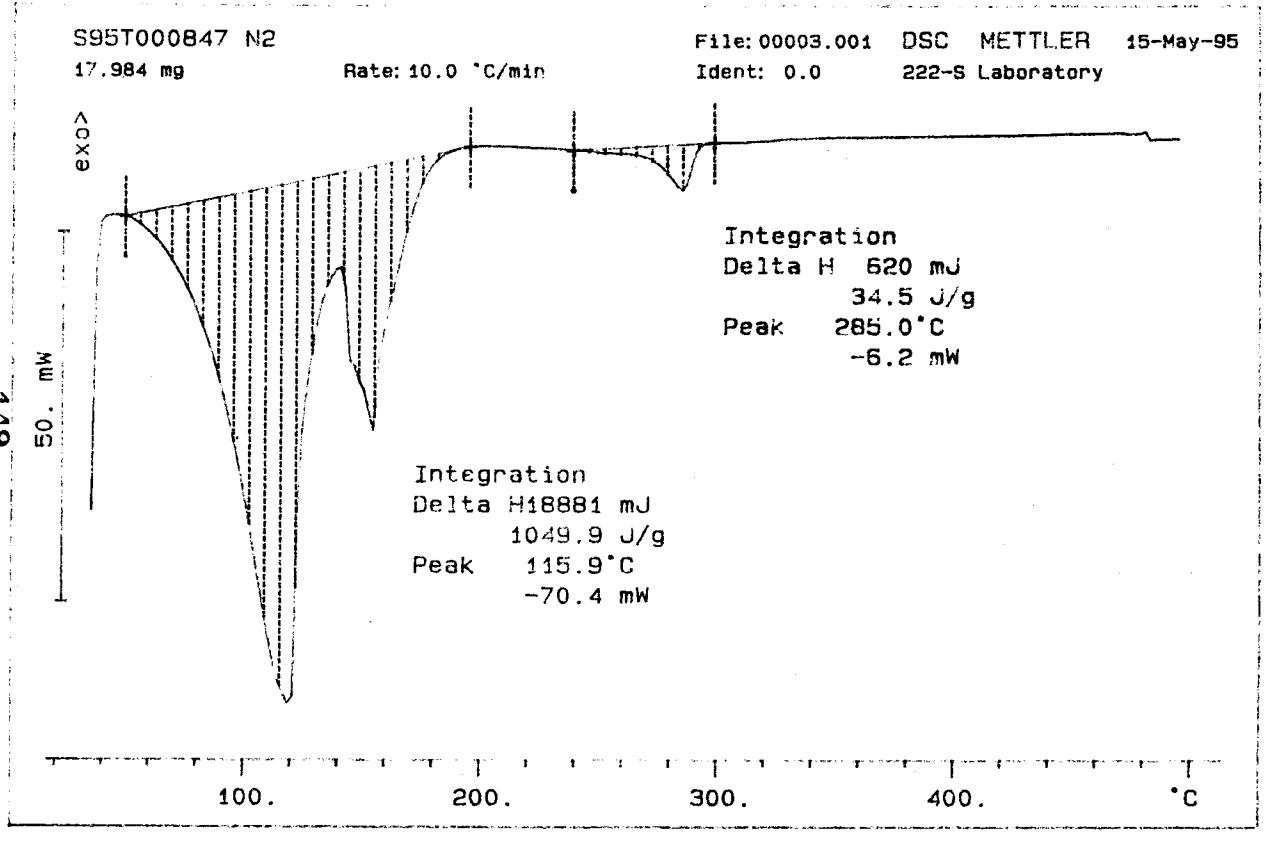
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 148 TO 153.

BEST AVAILABLE COPY

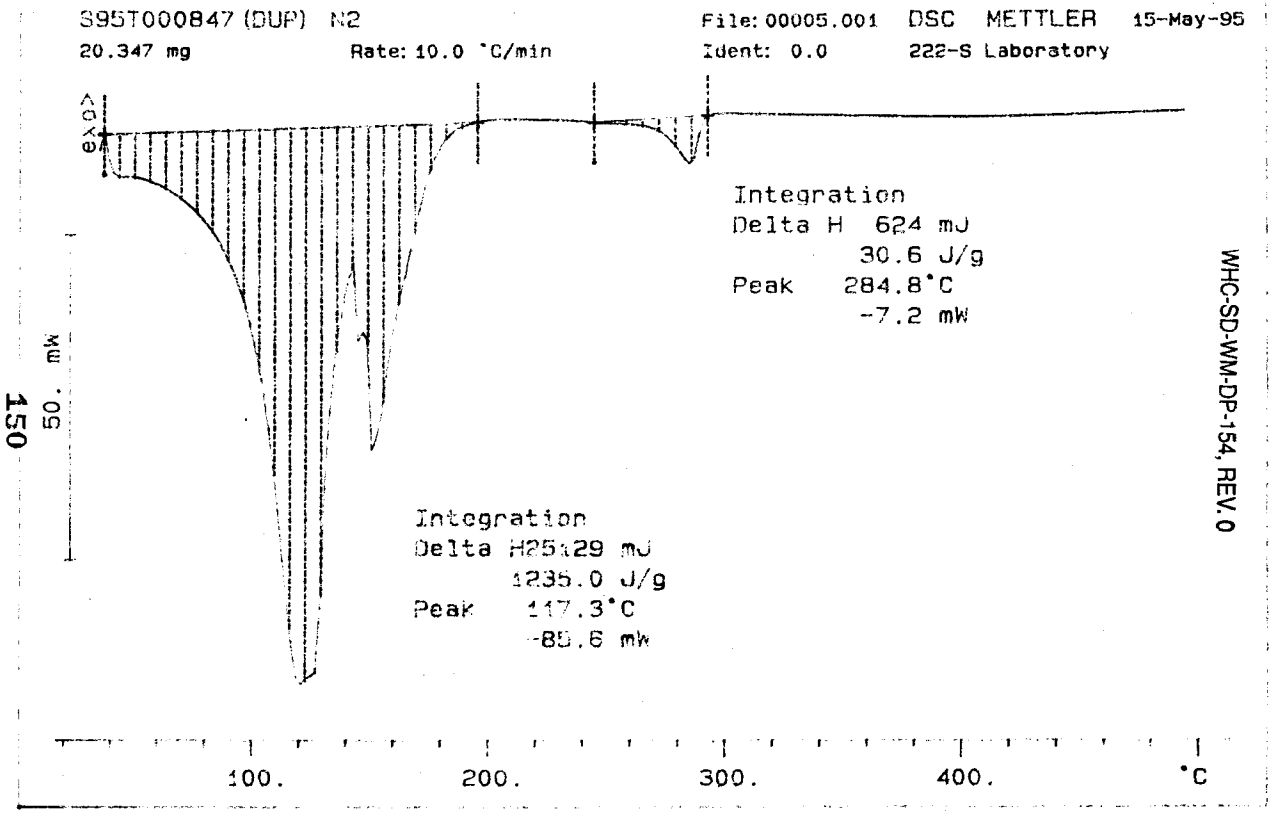


Susie M. Fulton 5-15-95

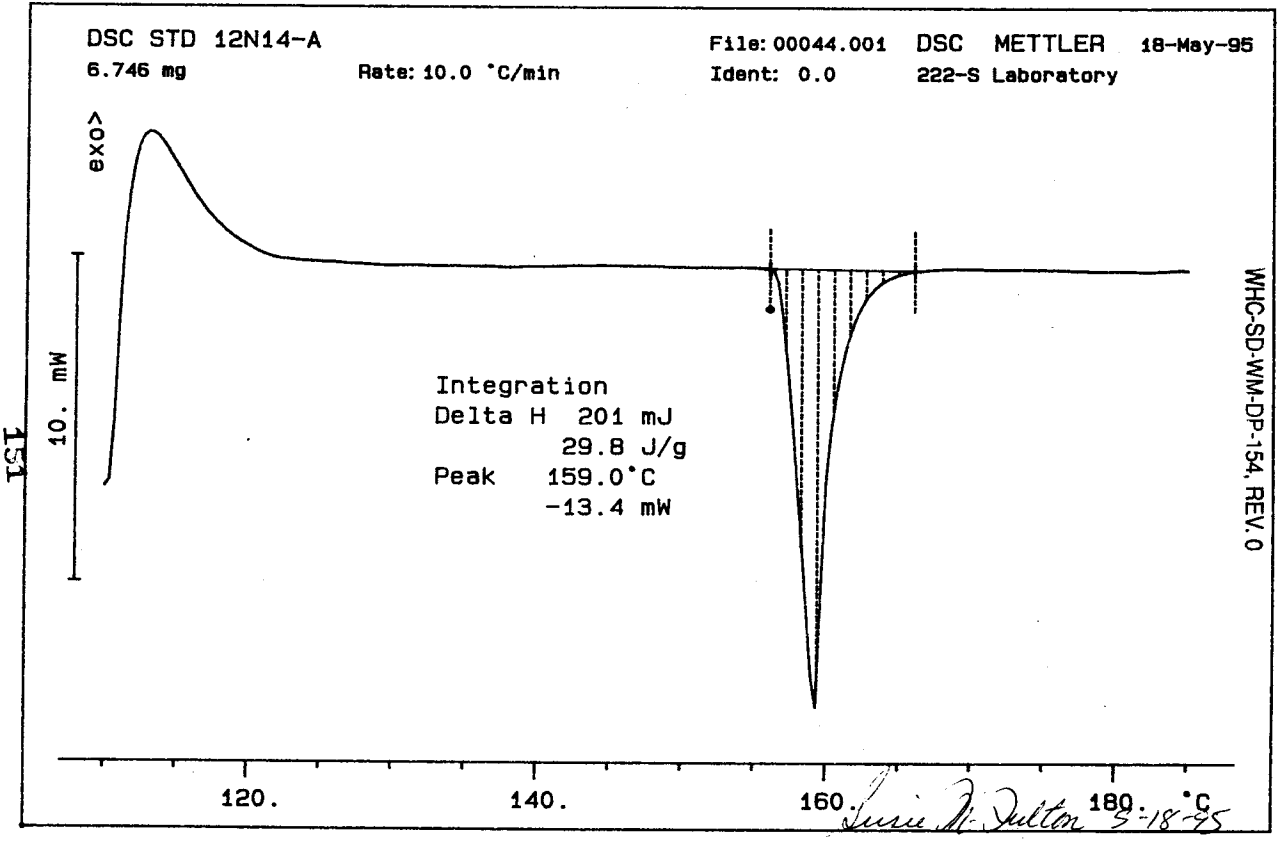
BEST AVAILABLE COPY



BEST AVAILABLE COPY

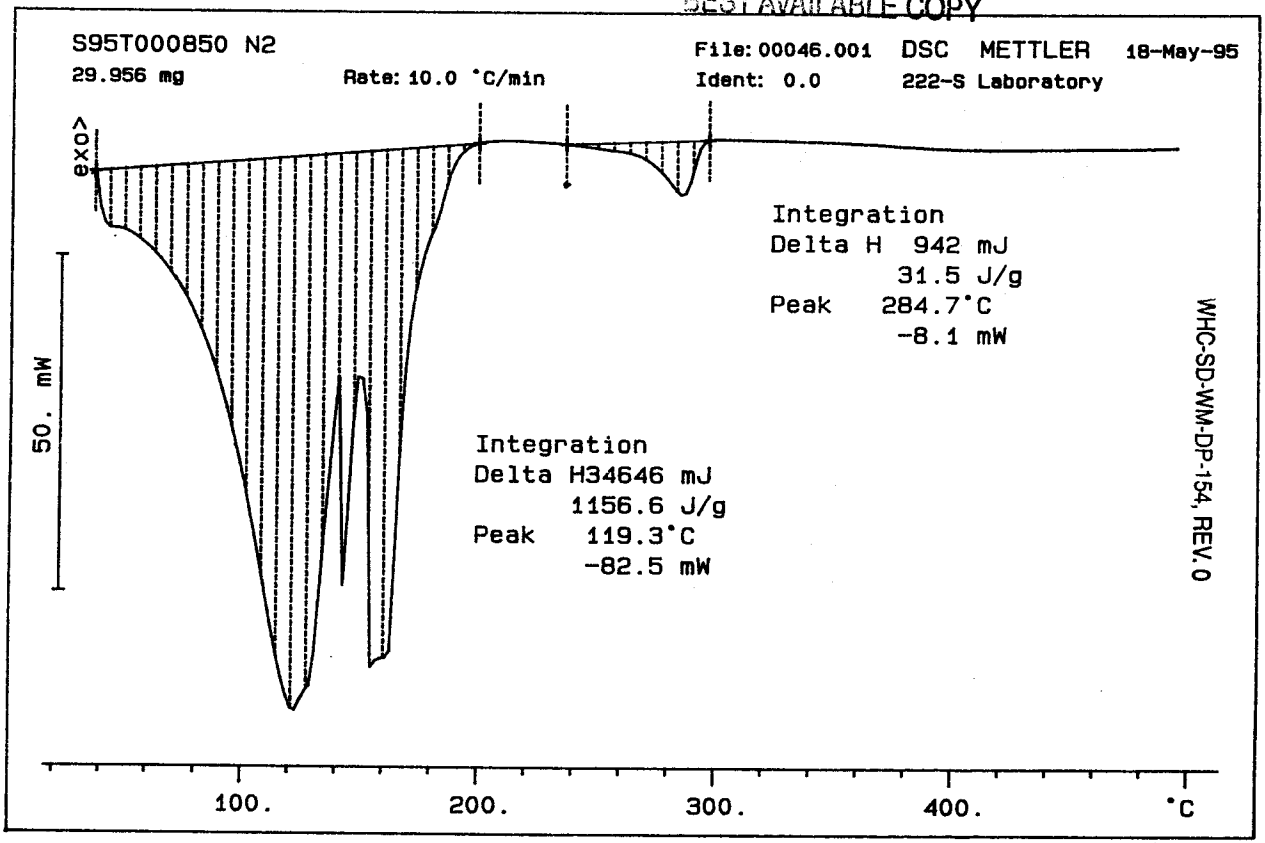


BEST AVAILABLE COPY

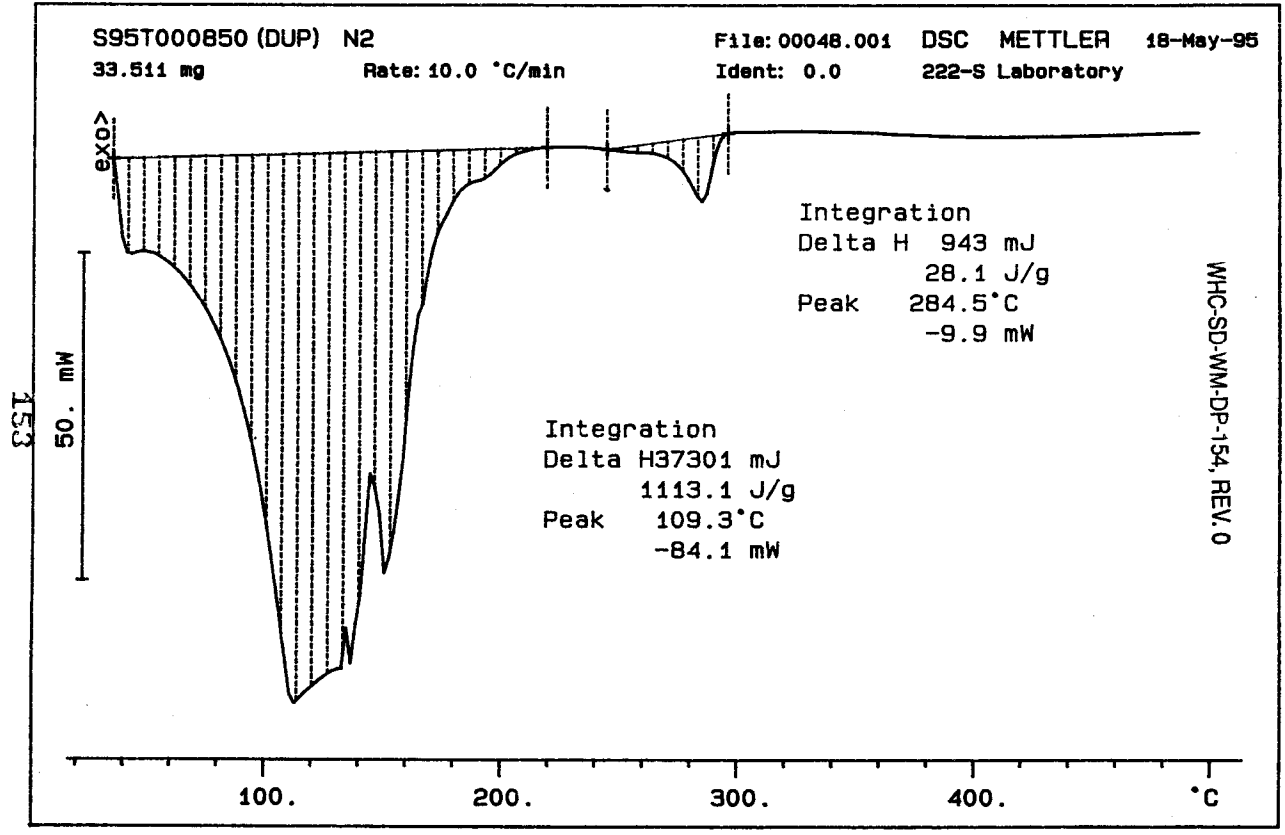


Susie M. Dutton 5-18-95

BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 1234

Analyst: KRM **Instrument:** DSC01 03 5/10/95 BDV **Book #** 12N14-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-03	LIQUID	28.45	29.36	N/A	Joules/g
95000059	BX-109	2	SAMPLE	S95T000783	0		DSC-03	LIQUID	N/A	Ø		Joules/g
95000059	BX-109	3	DUP	S95T000783	0		DSC-03	LIQUID	Ø	Ø	N/A	Joules/g
95000059	BX-109	4	SAMPLE	S95T000853	0		DSC-03	LIQUID	N/A	Ø		Joules/g
95000059	BX-109	5	DUP	S95T000853	0		DSC-03	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1234

See attached for signatures 5/10/95 BDV
Analyst Signature **Date**

5-11-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/11/95

Data Entry Comments: S95T000783 produced two endotherms one at 118.9°C with a delta H of 1292.7 J/g and the second at 284.2°C with a delta H of 27.7 J/g. S95T000853 produced one endotherm at 97.6°C with a delta H of 1842.7 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1234

Analyst: KRM **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-~~514-113~~ 514-114 Rev/Mod B-0 5/10/95 BDV

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	LIQUID			N/A	Joules/g
95000059	BX-109	2 SAMPLE	S95T000783	0		DSC-01	LIQUID	N/A			Joules/g
95000059	BX-109	3 DUP	S95T000783	0		DSC-01	LIQUID			N/A	Joules/g
95000059	BX-109	4 SAMPLE	S95T000853	0		DSC-01	LIQUID	N/A			Joules/g
95000059	BX-109	5 DUP	S95T000853	0		DSC-01	LIQUID			N/A	Joules/g

Final page for worklist # 1234

5-9-95

Analyst Signature **Date**

Analyst Signature **Date**

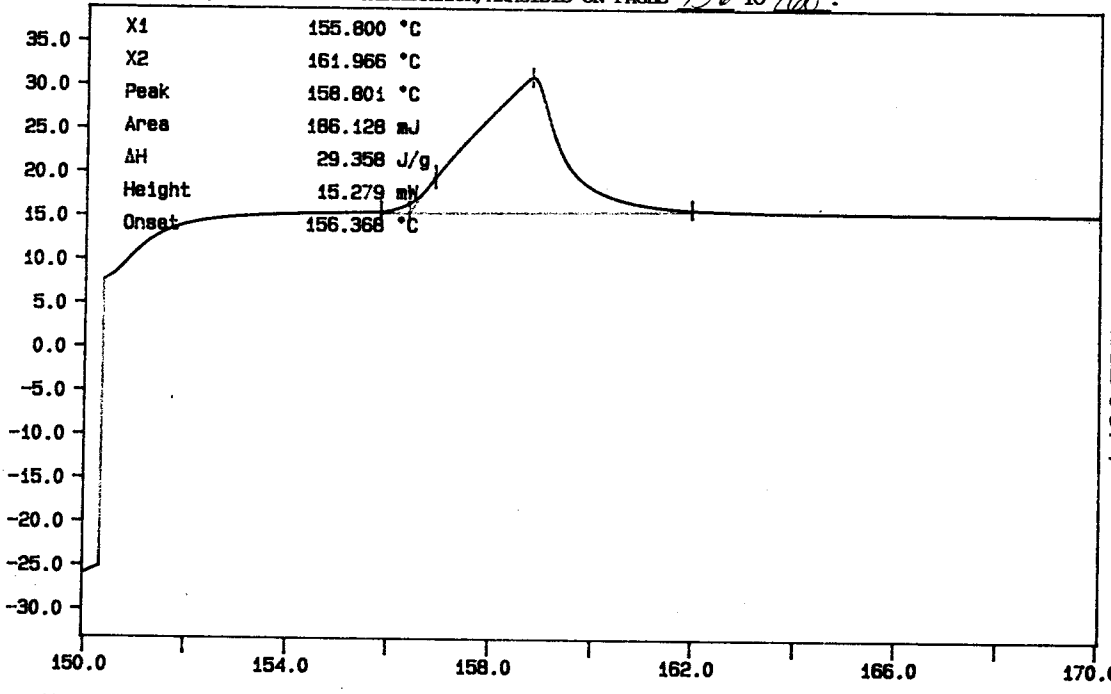
Other instrument was used
5/10/95
BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: ind050901 Tue May 9 20:31:28 1995
Sample Weight: 6.340 mg
Indium at 10c/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 156 TO 160.



156

N2 exotherm down
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

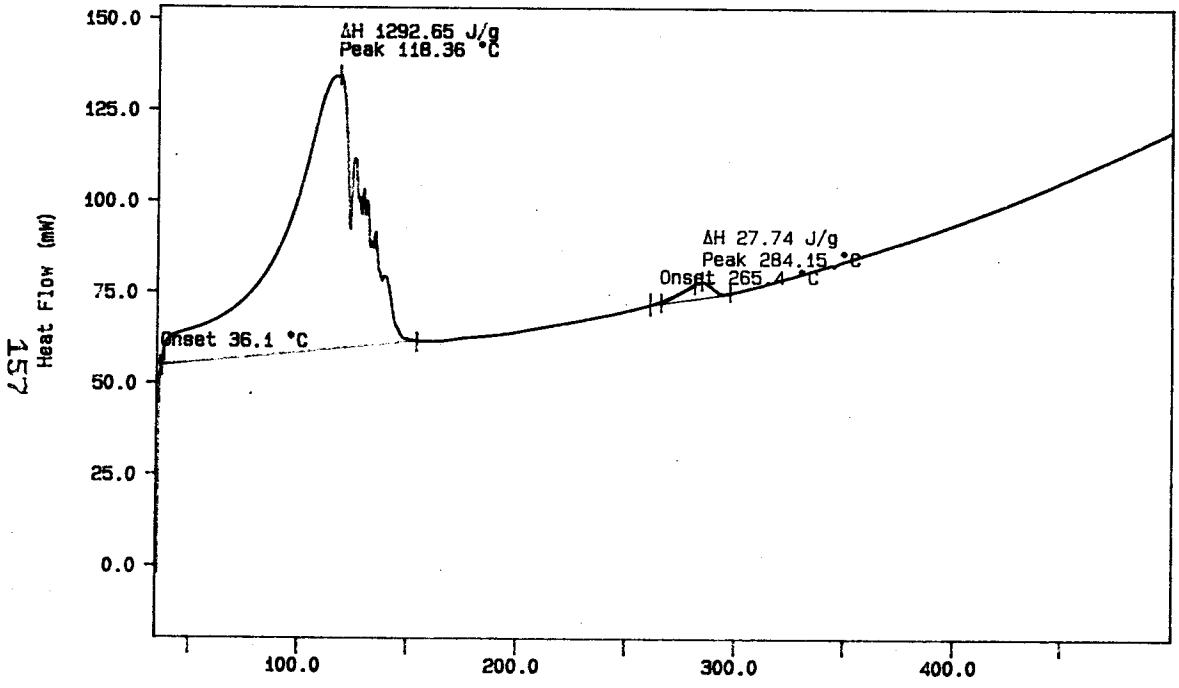
KR Monteith
Westinghouse Hanford Co.
222-S Lab
Tue May 9 20:30:48 1995

5-9-95

BEST AVAILABLE COPY

Curve 1: DSC
File info: sam050903 Tue May 9 23:19:49 1995
Sample Weight: 14.560 mg
S95T000783, 10C/min

BEST AVAILABLE COPY



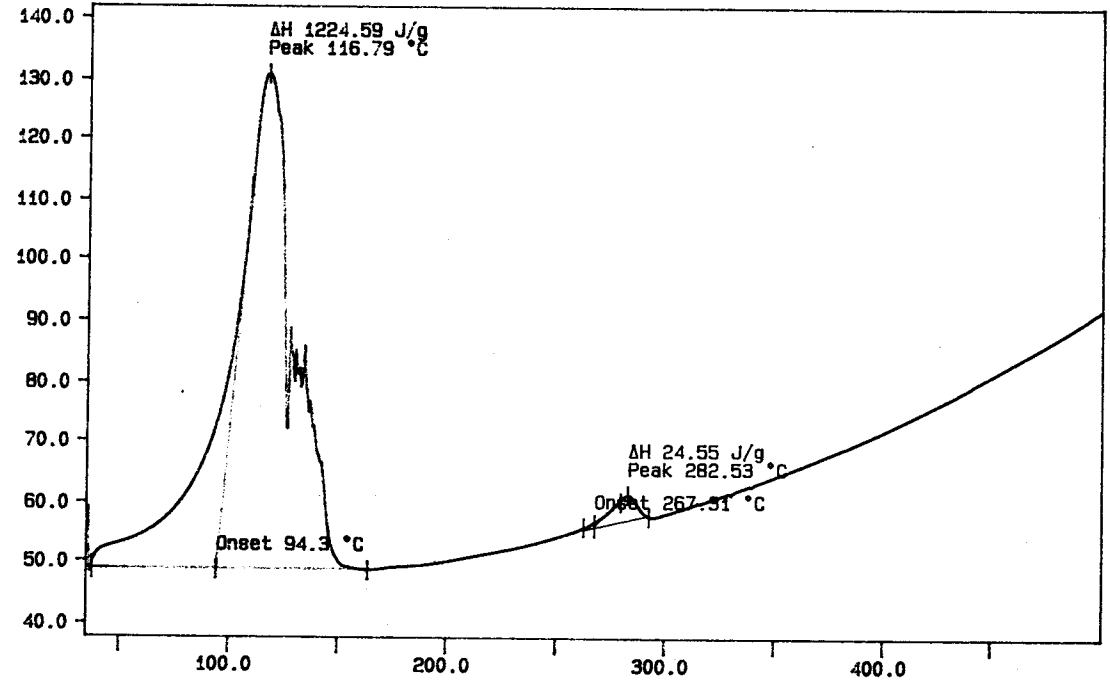
exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KA Monteith
Westinghouse Hanford Co.
222-S Lab
Tue May 9 23:20:55 1995

Curve 1: DSC
File info: sam050904 Wed May 10 00:11:19 1995
Sample Weight: 13.780 mg
S95T000783(dup), 10C/min

BEST AVAILABLE COPY



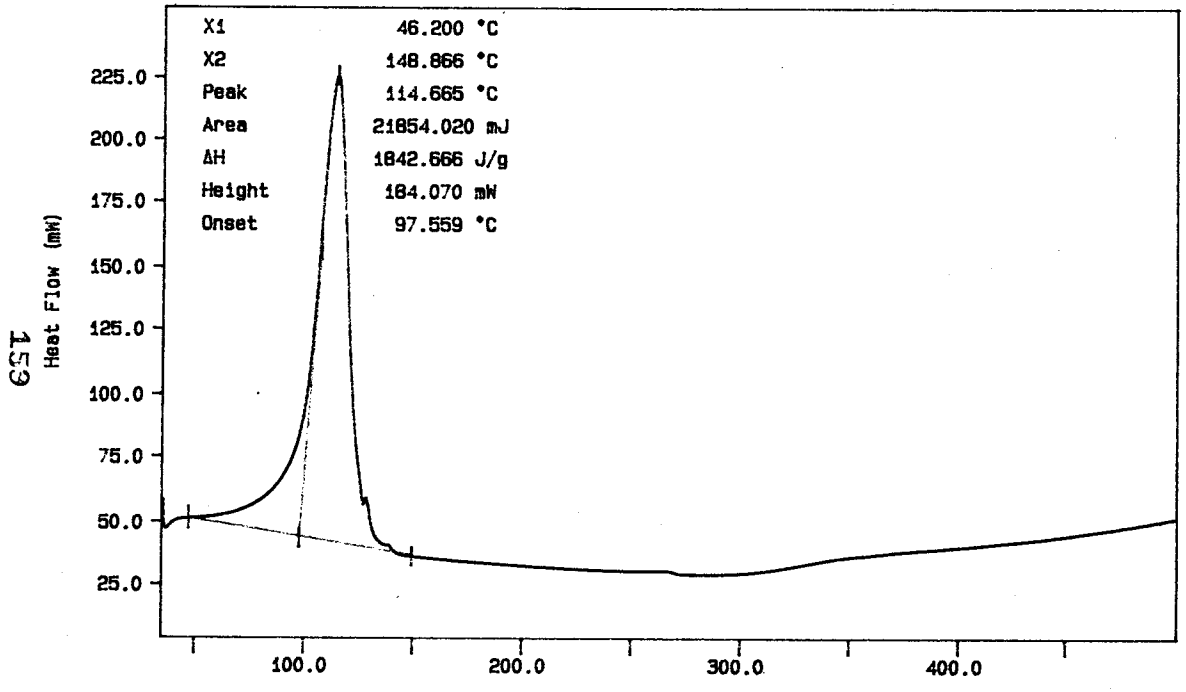
exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KR Monteith
Westinghouse Hanford Co.
222-S Lab
Wed May 10 00:35:57 1995

Curve 1: DSC
File info: sam050901 Tue May 9 21:36:40 1995
Sample Weight: 11.860 mg
S95T000853, 10C/min

BEST AVAILABLE COPY



159

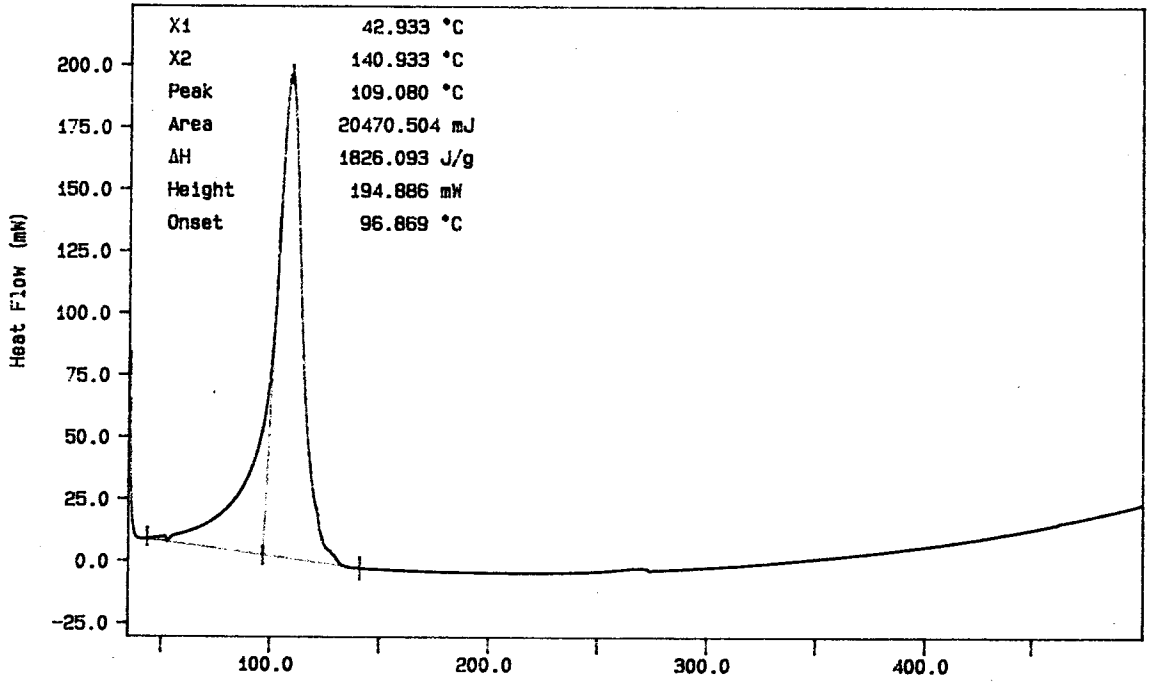
exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KR Monteith
Westinghouse Hanford Co.
222-S Lab
Tue May 9 21:39:27 1995

Curve 1: DSC
File info: sam050902 Tue May 9 22:28:04 1995
Sample Weight: 11.210 mg
S95T 000853(DUP), 10C/MIN

BEST AVAILABLE COPY



exotherm down, nitrogen purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
Westinghouse Hanford Co.
222-S Lab
Tue May 9 22:28:35 1995

LABCORE Data Entry Template for Worklist# 1235

Analyst: ADP **Instrument:** DSC01 **Book #** 12N14A

Method: LA-514-113 Rev/Mod B1

Worklist Comment: Please run BX-109 DSC under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	LIQUID	28.45	30.0	N/A	Joules/g
95000059	BX-109	2	SAMPLE	S95T000856	0		DSC-01	LIQUID	N/A	Ø		Joules/g
95000059	BX-109	3	DUP	S95T000856	0		DSC-01	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1235

Analyst Signature 5-8-95 Date

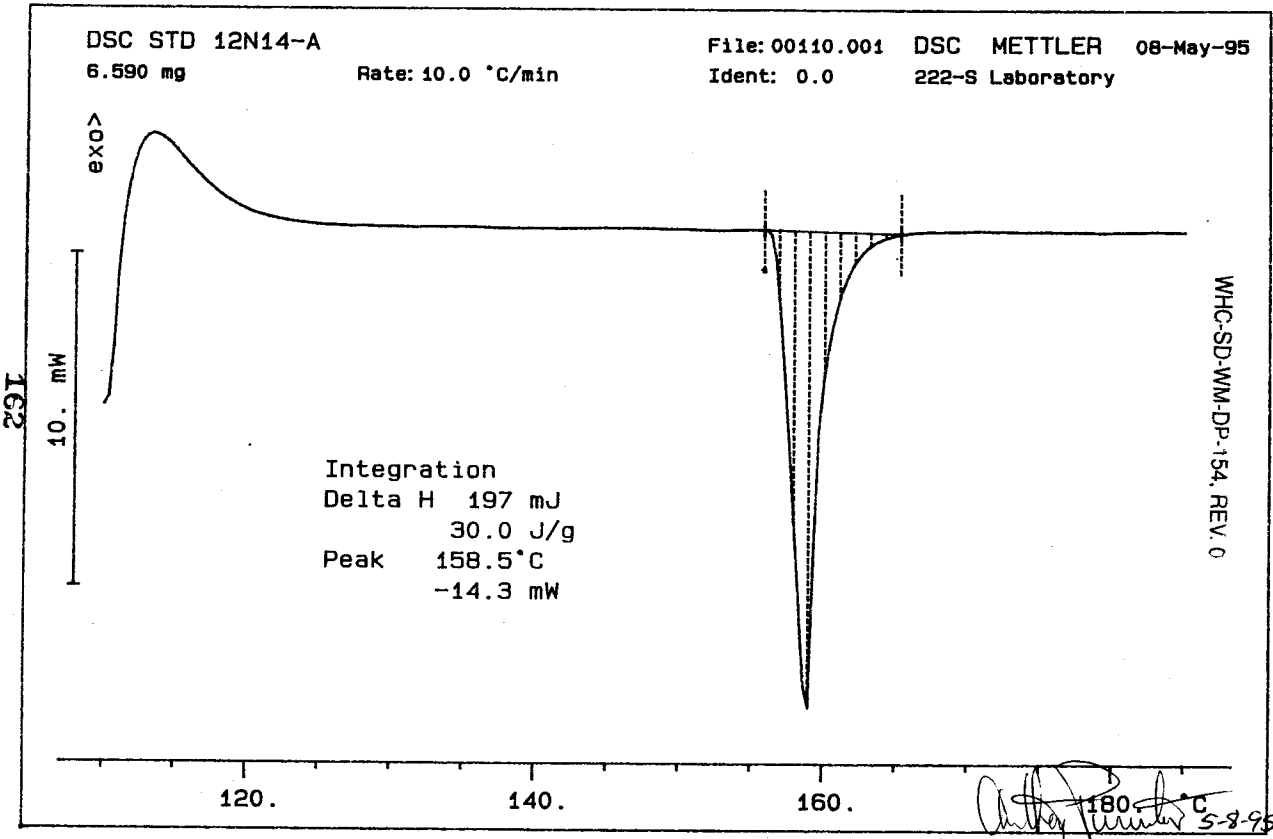
Analyst Signature 5-8-95 Date

Verified by Blandina Valenzuela 5/8/95

Data Entry Comments: Sample produced one 5/8/95 BDV endotherm at 99.3°C with a delta H of 1544.87 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

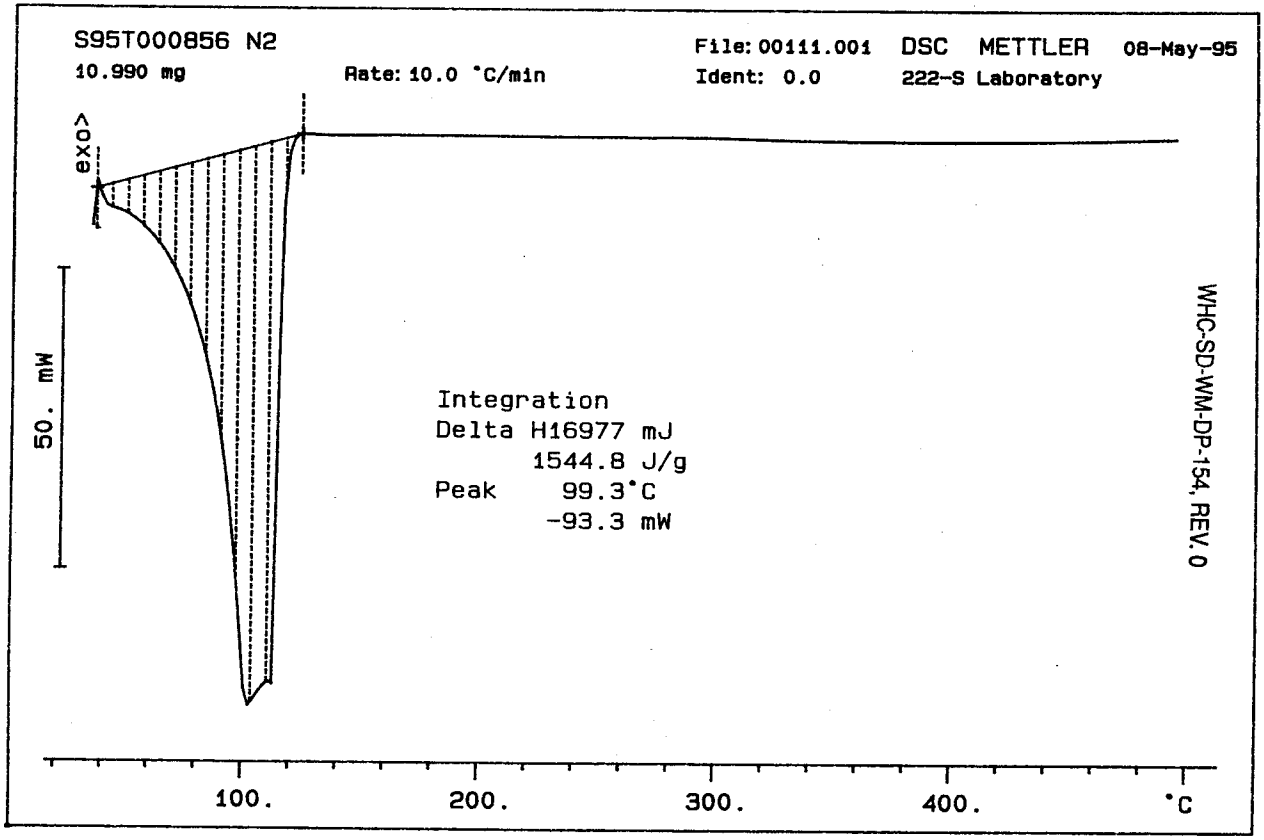
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 162 TO 164.



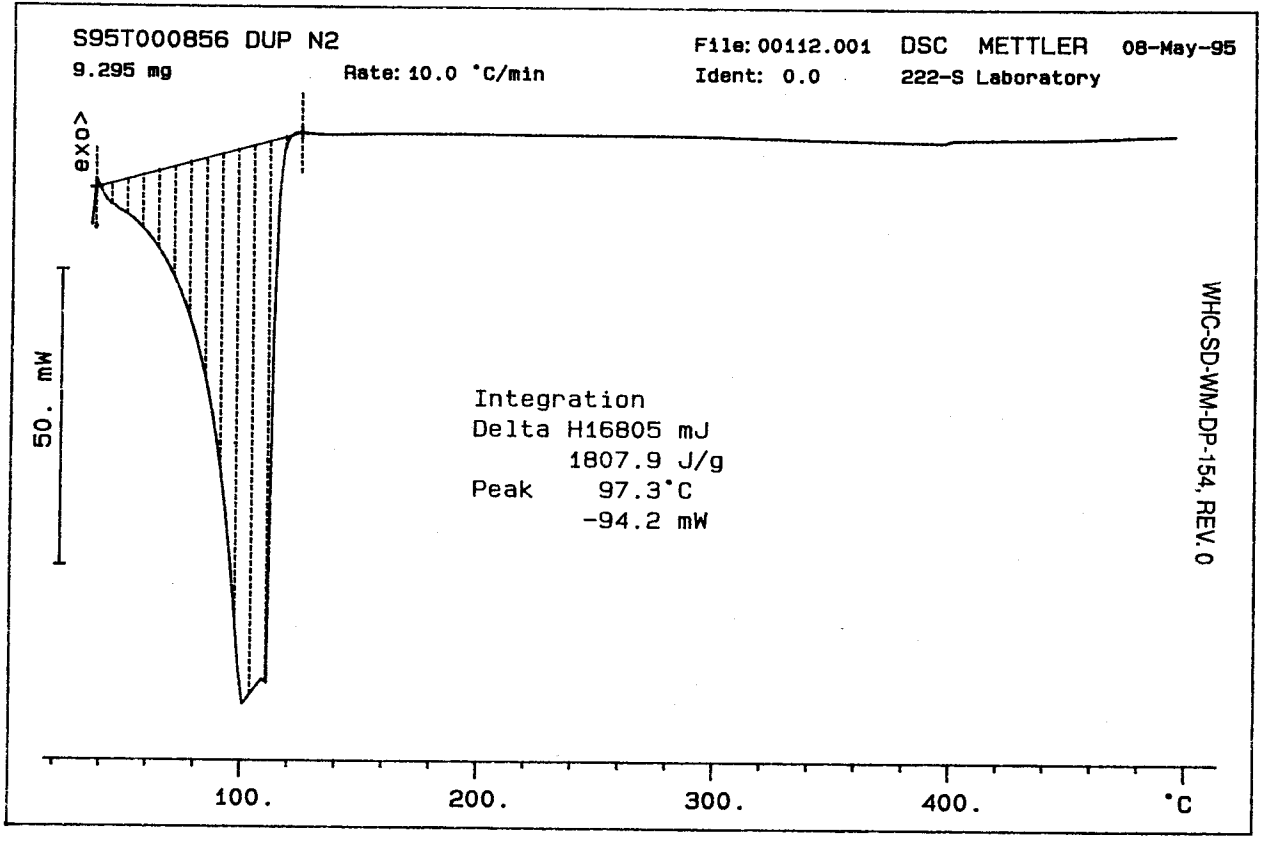
5-8-95

BEST AVAILABLE COPY

BEST AVAILABLE COPY



BEST AVAILABLE COPY



worklistrpt Version 2.1 05/15/95
07/27/95 14:02

LABCORE Data Entry Template for Worklist# 1922

Analyst: RM McCown **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BX-109 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	28.2	N/A	Joules/g
95000057	BX-109	2	SAMPLE	S95T001325	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000057	BX-109	3	DUP	S95T001325	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1922

RM McCown 8/7/95
Analyst Signature **Date**

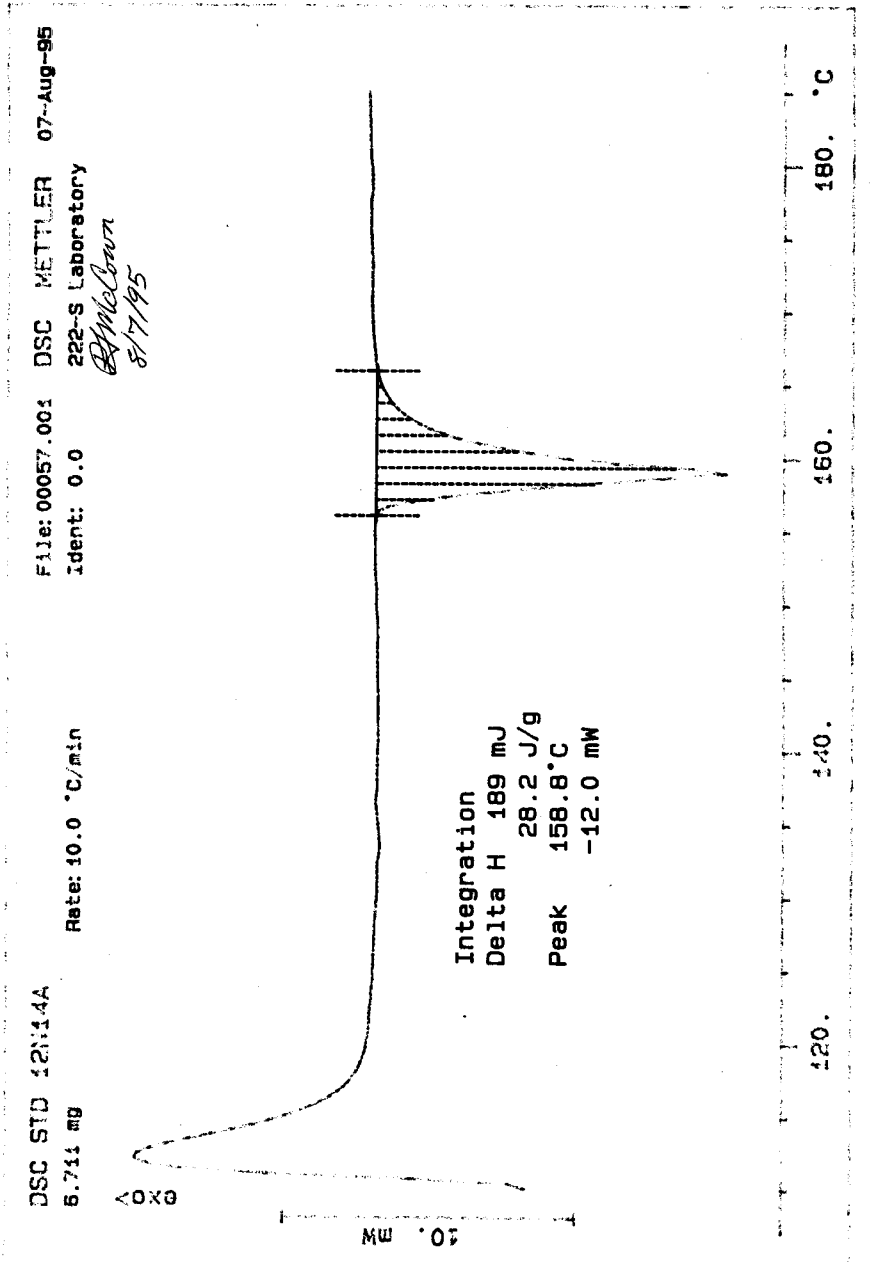
Analyst Signature 8-8-95 **Date**

Verified by Blandina Valenzuela 8-8-95

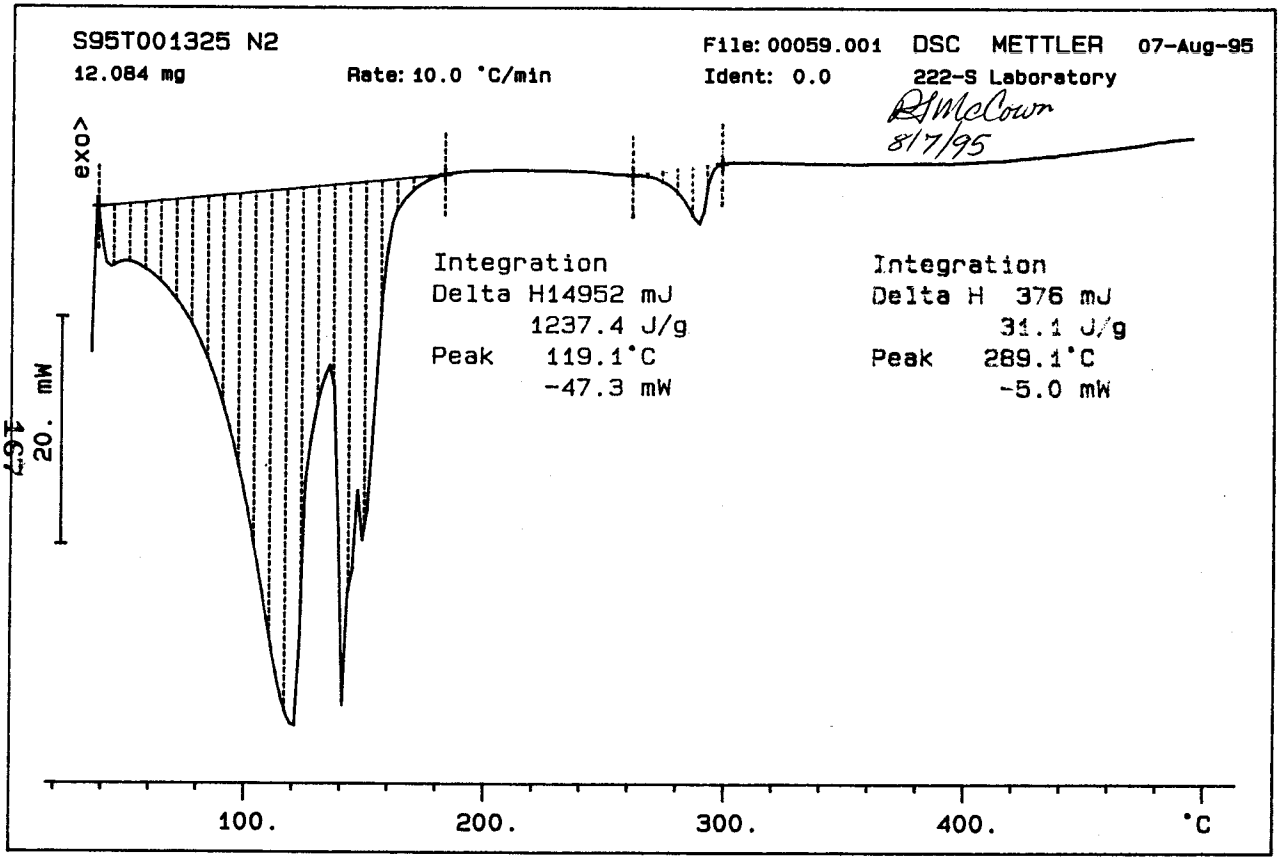
Data Entry Comments: The sample produced two endothermic regions one at 119.1°C with a delta H of 1237.4 J/g and the second at 289.1°C with a delta H of 31.1 J/g.

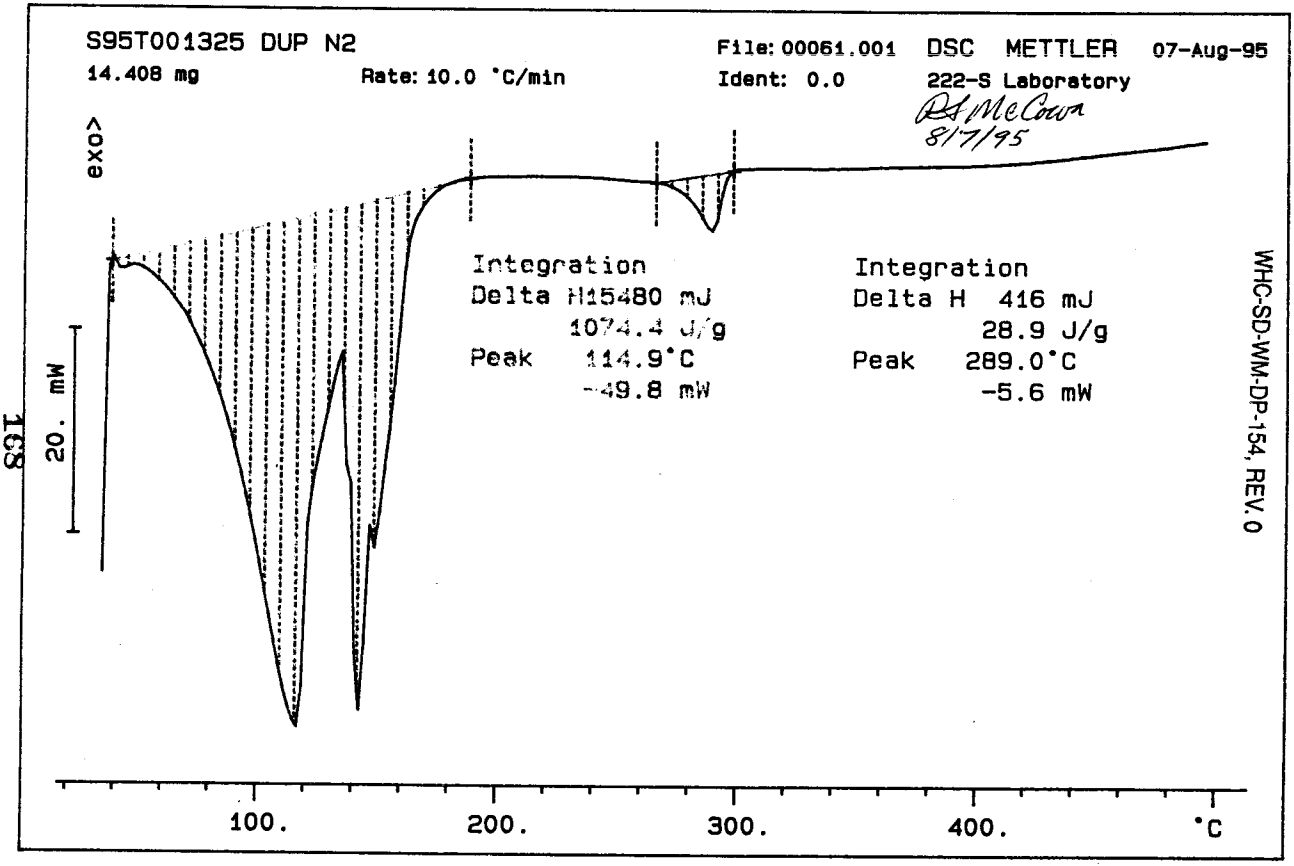
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

BEST AVAILABLE COPY



BEST AVAILABLE COPY




S95T001325 DUP N2
14.408 mg
Rate: 10.0 °C/min
File: 00061.001
Ident: 0.0
DSC METTLER
222-S Laboratory
07-Aug-95
RA McCown
8/7/95
exo>
20. mW
Integration
Delta H15480 mJ
1074.4 J/g
Peak 114.9°C
-49.8 mW
Integration
Delta H 416 mJ
28.9 J/g
Peak 289.0°C
-5.6 mW
100.
200.
300.
400.
°C
WHC-SD-WM-DP-154, REV.0

LABCORE Data Entry Template for Worklist# 2113

Analyst: RJMcCown **Instrument:** DSC0 1 **Book #** 12014A

Method: LA-514-113 Rev/Mod CO

Worklist Comment: Please run BX-109 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	29.5	N/A	Joules/g
95000059	BX-109	2 SAMPLE	S95T001468	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000059	BX-109	3 DUP	S95T001468	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2113

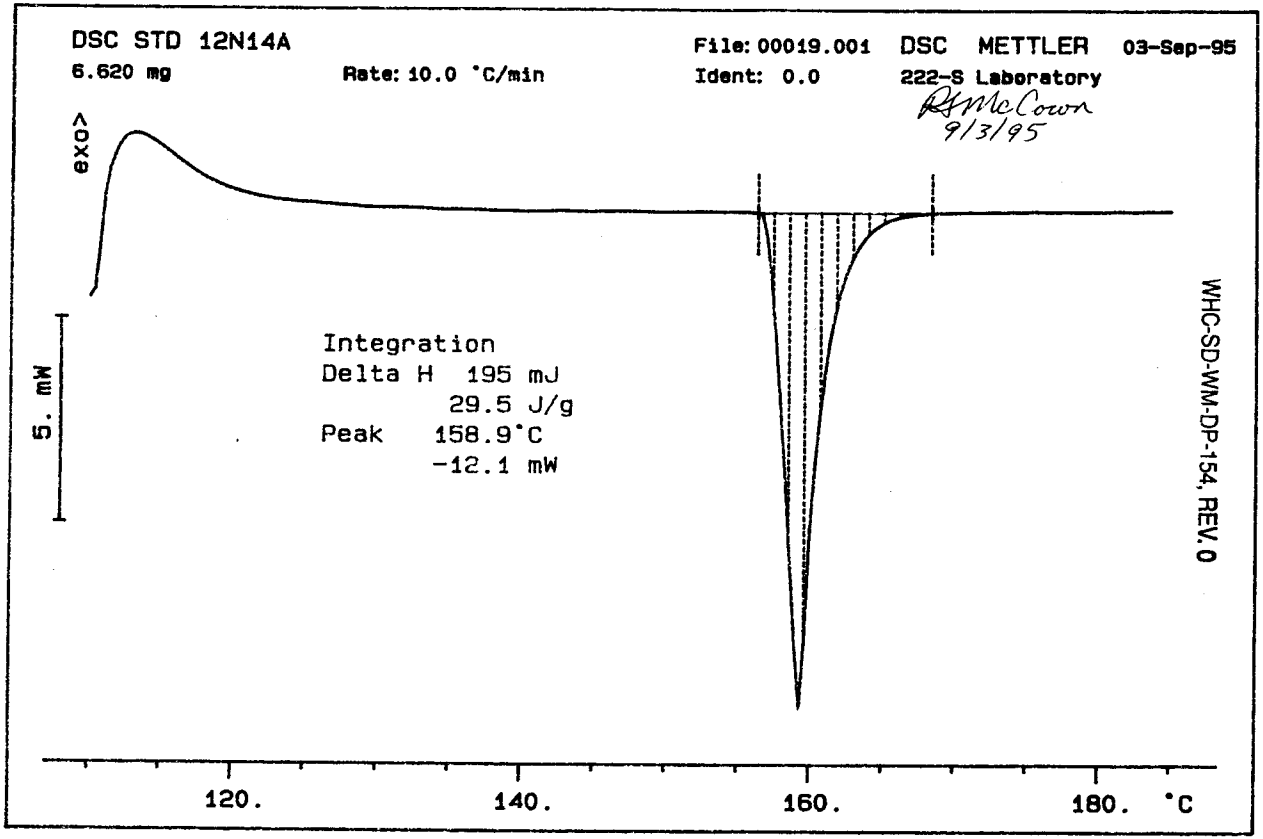
RJMcCown 9/3/95
Analyst Signature **Date**

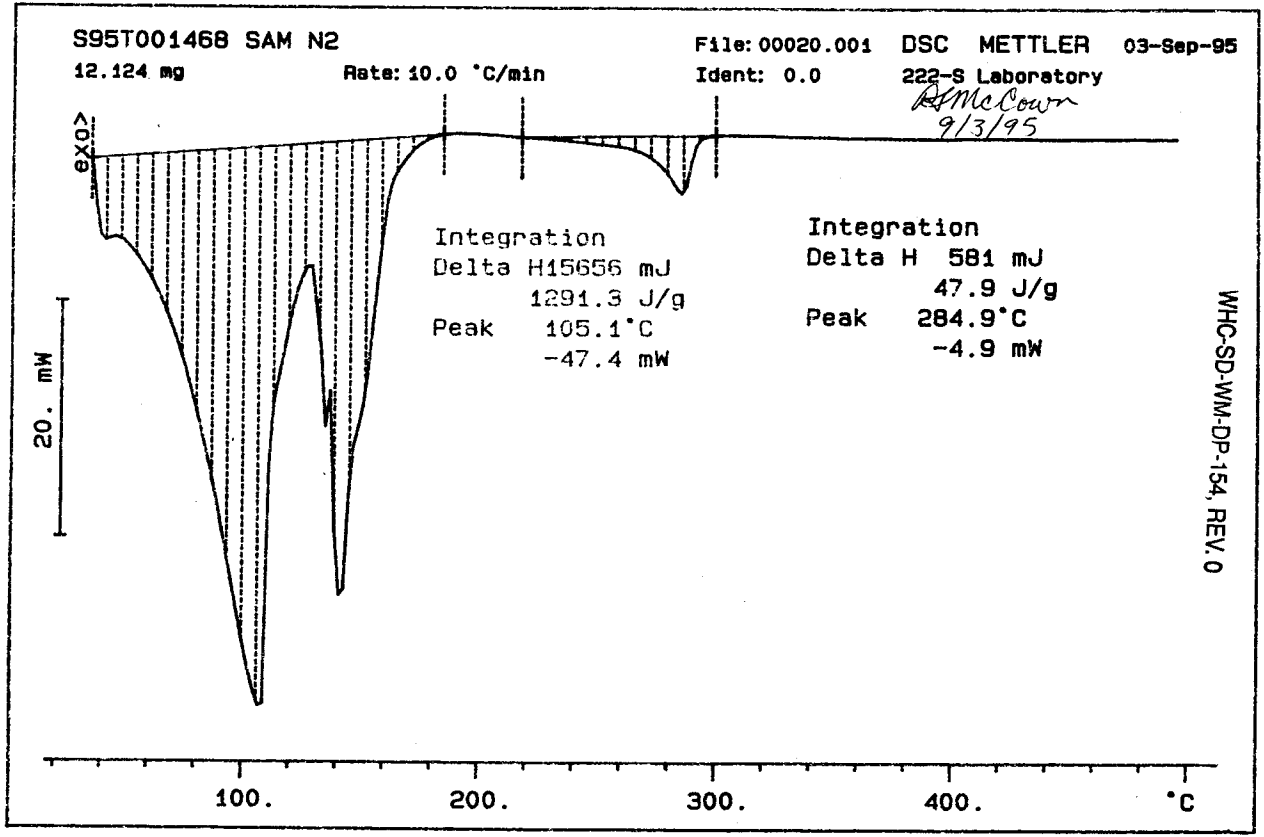
T.S. Jones 9-5-95
Analyst Signature **Date**

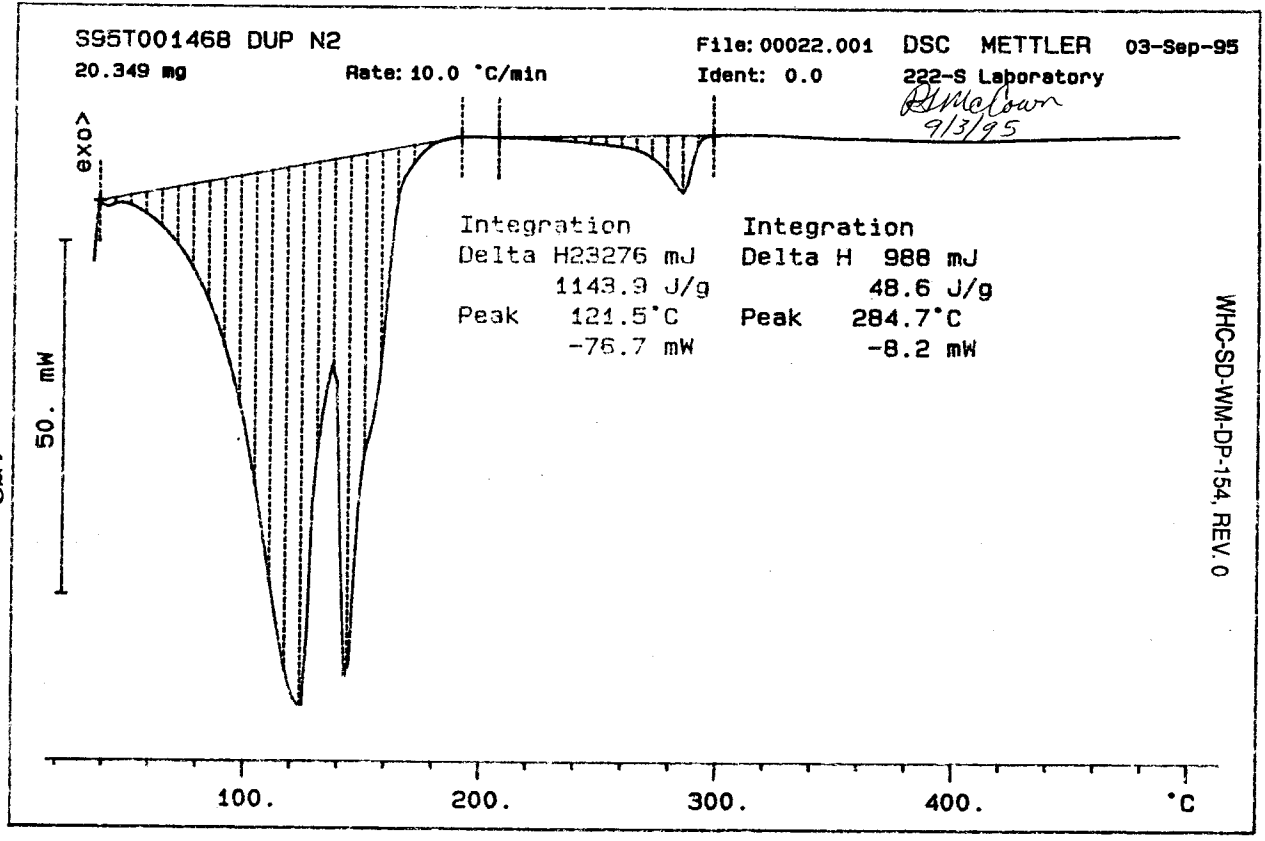
Verified 9/5/95 J. M. Fuyo

Data Entry Comments:
S95T001468 sample has endotherms of 129.3 J/g at 105.1°C and 47.9 J/g at 284.9°C. JMFuyo

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.


DSC STD 12N14A
6.620 mg
Rate: 10.0 °C/min
File: 00019.001
Ident: 0.0
DSC METTLER
222-S Laboratory
03-Sep-95
R.M. McCown
9/3/95
exo
5. mW
Integration
Delta H 195 mJ
29.5 J/g
Peak 158.9°C
-12.1 mW
120.
140.
160.
180.
°C
WHC-SD-WM-DP-154, REV. 0


S95T001468 SAM N2
12.124 mg
Rate: 10.0 °C/min
File: 00020.001
Ident: 0.0
DSC METTLER
03-Sep-95
222-S Laboratory
A McCown
9/3/95
exo
Integration
Delta H15656 mJ
1291.3 J/g
Peak 105.1°C
-47.4 mW
Integration
Delta H 581 mJ
47.9 J/g
Peak 284.9°C
-4.9 mW
20. mW
100.
200.
300.
400.
°C


S95T001468 DUP N2
20.349 mg
Rate: 10.0 °C/min
File: 00022.001
Ident: 0.0
DSC METTLER
222-S Laboratory
03-Sep-95
D.M. McCown 9/13/95
exo
.05 mW
Integration
Delta H 23276 mJ
1143.9 J/g
Peak 121.5°C
-76.7 mW
Integration
Delta H 988 mJ
48.6 J/g
Peak 284.7°C
-8.2 mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 1506

Analyst: BDV **Instrument:** DSC0 2 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated dry DSC for BX-109. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	1	SAMPLE	S95T000759	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000057	BX-109	2	DUP	S95T000759	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000057	BX-109	3	SAMPLE	S95T000762	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000057	BX-109	4	DUP	S95T000762	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000057	BX-109	5	SAMPLE	S95T000765	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000057	BX-109	6	DUP	S95T000765	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000057	BX-109	7	SAMPLE	S95T000768	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000057	BX-109	8	DUP	S95T000768	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000057	BX-109	9	SAMPLE	S95T000771	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000057	BX-109	10	DUP	S95T000771	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000057	BX-109	11	SAMPLE	S95T000774	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000057	BX-109	12	DUP	S95T000774	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000057	BX-109	13	SAMPLE	S95T000777	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000057	BX-109	14	DUP	S95T000777	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Data entered + verified by **Final page for worklist # 1506**

Blandina Valenzuela 6/5/95

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1507

Analyst: BDV **Instrument:** DSC0 2 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated dry DSC for BX-109. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	1 SAMPLE	S95T000780	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000059	BX-109	2 DUP	S95T000780	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	3 SAMPLE	S95T000786	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000059	BX-109	4 DUP	S95T000786	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	5 SAMPLE	S95T000789	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000059	BX-109	6 DUP	S95T000789	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	7 SAMPLE	S95T000836	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000059	BX-109	8 DUP	S95T000836	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	9 SAMPLE	S95T000839	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000059	BX-109	10 DUP	S95T000839	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	11 SAMPLE	S95T000847	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000059	BX-109	12 DUP	S95T000847	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	13 SAMPLE	S95T000850	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000059	BX-109	14 DUP	S95T000850	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Data entered + verified by **Final page for worklist # 1507**

Blandina Valenzuela 6-5-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1518

Analyst: BDV **Instrument:** DSC0 1 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated dry DSC for BX-109. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	1 SAMPLE	S95T000783	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000059	BX-109	2 DUP	S95T000783	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	3 SAMPLE	S95T000853	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000059	BX-109	4 DUP	S95T000853	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000059	BX-109	5 SAMPLE	S95T000856	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000059	BX-109	6 DUP	S95T000856	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist # 1518

Data entered + verified by
Blandina Valenzuela 6/13/95

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
04/27/95 09:16

LABCORE Data Entry Template for Worklist# 1241

Analyst: DCD **Instrument:** TGA01 **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.19	56.32	N/A	%
95000057	BX-109	2	SAMPLE	S95T000759	0		TGA-01	SOLID	N/A	48.07		%
95000057	BX-109	3	DUP	S95T000759	0		TGA-01	SOLID	48.07	49.92	N/A	%
95000057	BX-109	4	SAMPLE	S95T000762	0		TGA-01	SOLID	N/A	51.17		%
95000057	BX-109	5	DUP	S95T000762	0		TGA-01	SOLID	51.17	50.89	N/A	%

Final page for worklist # 1241

David C Dunbar 5-7-95
Analyst Signature **Date**

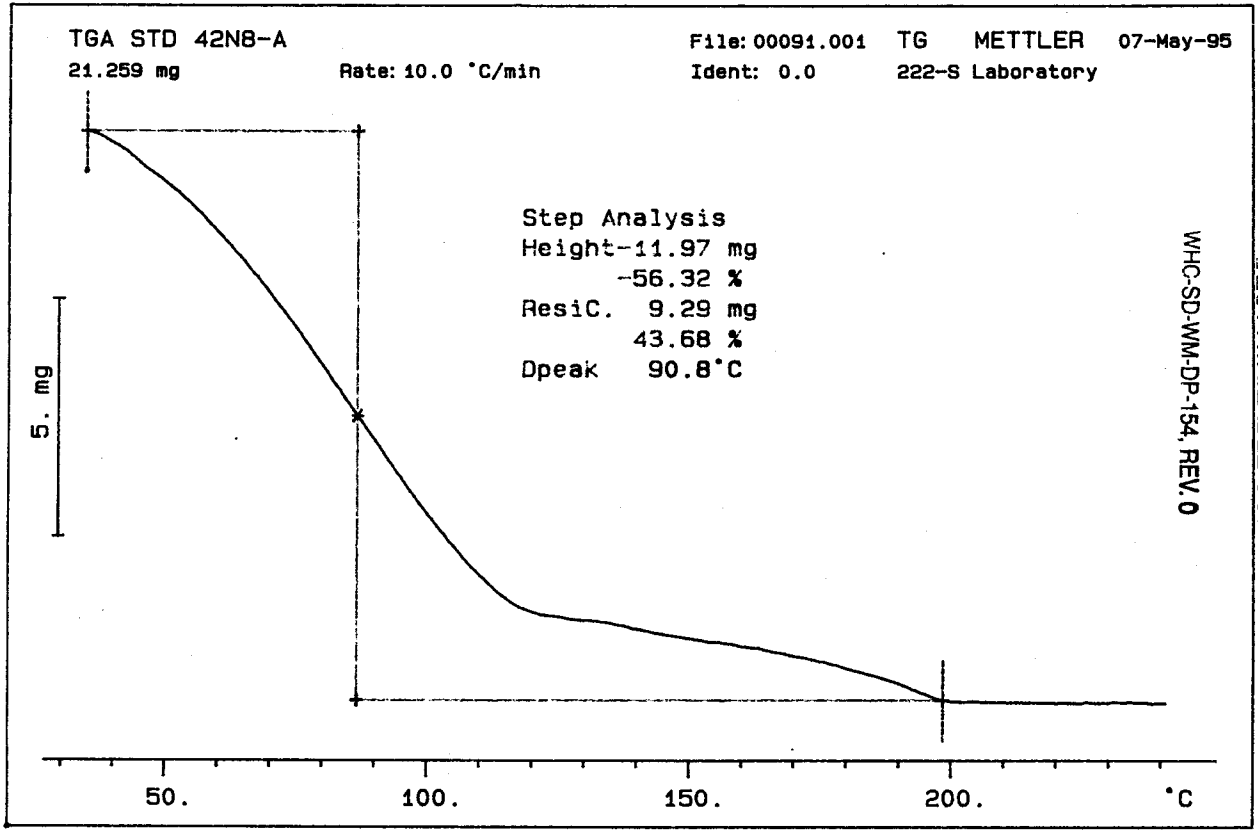
5-8-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/9/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 177 TO 181.



177

WHC-SD-WM-DP-154, REV.0

BEST AVAILABLE COPY

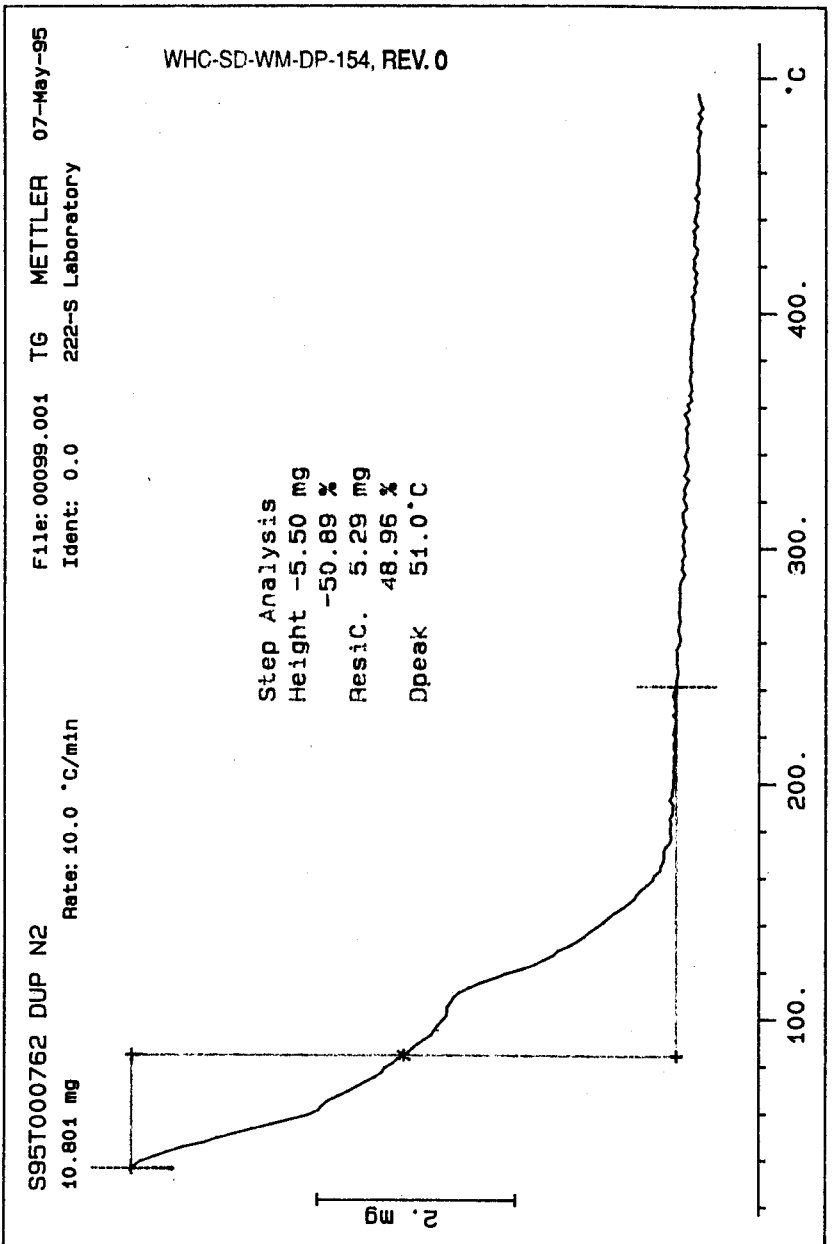
Daniel C. Dunham 5-7-95

BEST AVAILABLE COPY

 BEST AVAILABLE COPY

BEST AVAILABLE COPY

BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 1242

Analyst: KRM **Instrument:** TGA01 03 5/16/95 BDV **Book #** 42N8-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-03	SOLID	59.19	57.51	N/A	%
95000057	BX-109	2	SAMPLE	S95T000765	0		TGA-03	SOLID	N/A	50.78		%
95000057	BX-109	3	DUP	S95T000765	0		TGA-03	SOLID	50.78	50.03	N/A	%
95000057	BX-109	4	SAMPLE	S95T000768	0		TGA-03	SOLID	N/A	49.52		%
		5	STD				TGA-03	SOLID	59.19	58.40	N/A	%
95000057	BX-109	6	DUP	S95T000768	0		TGA-03	SOLID	49.52	48.67	N/A	%

Final page for worklist # 1242

See attached for signatures 5/16/95 BDV
Analyst Signature **Date**

5-16-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/17/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1242

Analyst: KRM **Instrument:** TGA01 **Book #** 42N8A

Method: LA-~~560-112~~ 514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000057	BX-109	2	SAMPLE	S95T000765	0		TGA-01	SOLID	N/A			%
95000057	BX-109	3	DUP	S95T000765	0		TGA-01	SOLID			N/A	%
95000057	BX-109	4	SAMPLE	S95T000768	0		TGA-01	SOLID	N/A			%
95000057	BX-109	5	DUP	S95T000768	0		TGA-01	SOLID			N/A	%

Final page for worklist # 1242

5-15-95

Analyst Signature **Date**

Analyst Signature **Date**

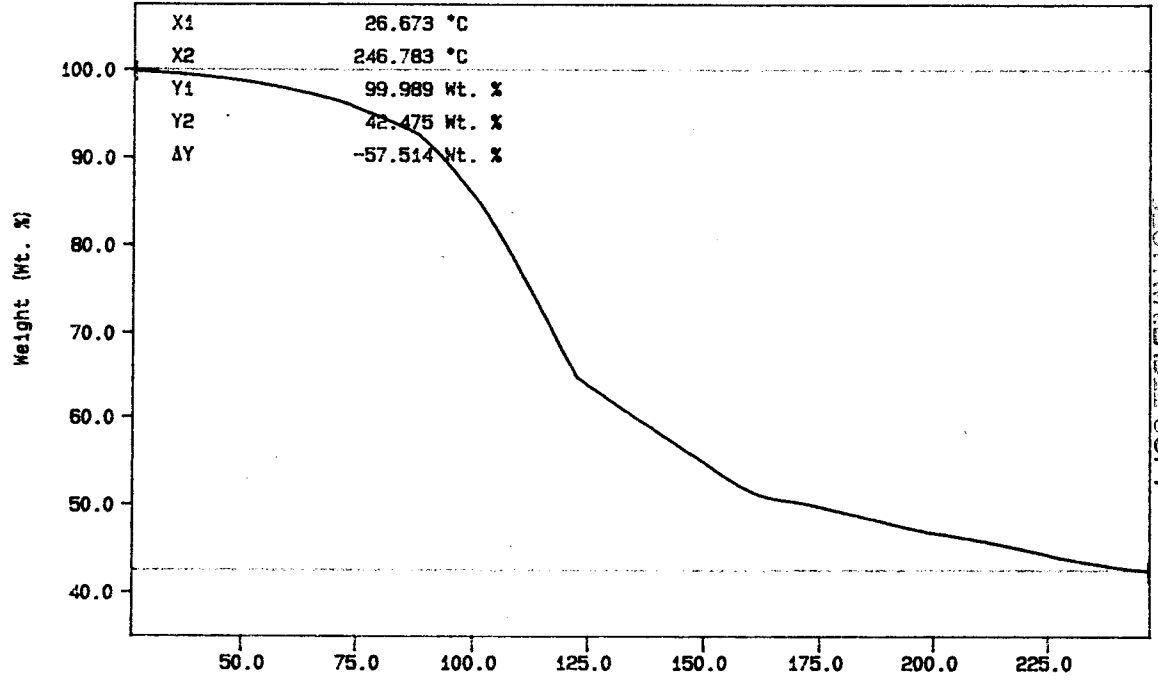
Other instrument was used. 5/16/95 BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: ter051003 Wed May 10 18:16:16 1995
Sample Weight: 16.274 mg
42N8A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 183.1 TO 188.



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

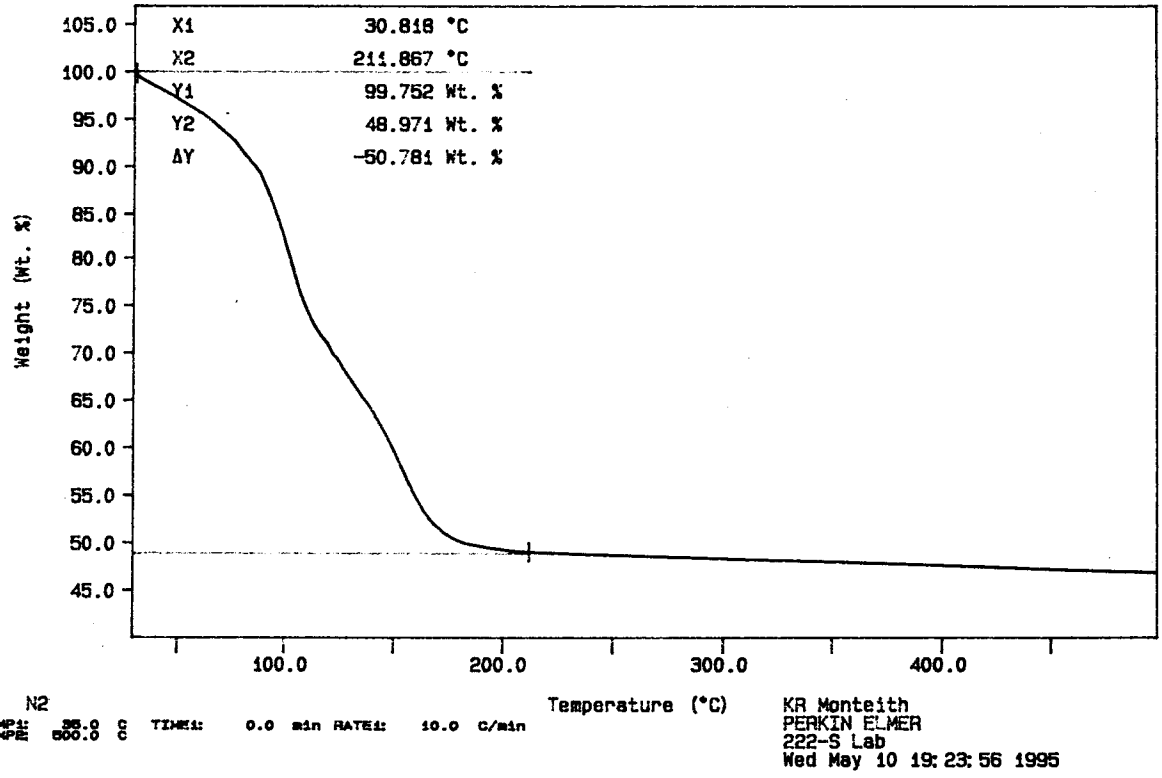
KR Monteith
PERKIN ELMER
222-S Lab
Wed May 10 18:23:19 1995

5-10-95

183.1

TEST AVAILABLE COPY

Curve 1: TGA
File info: sam051001 Wed May 10 19:18:48 1995
Sample Weight: 15.391 mg
S95T000765, 10C/min

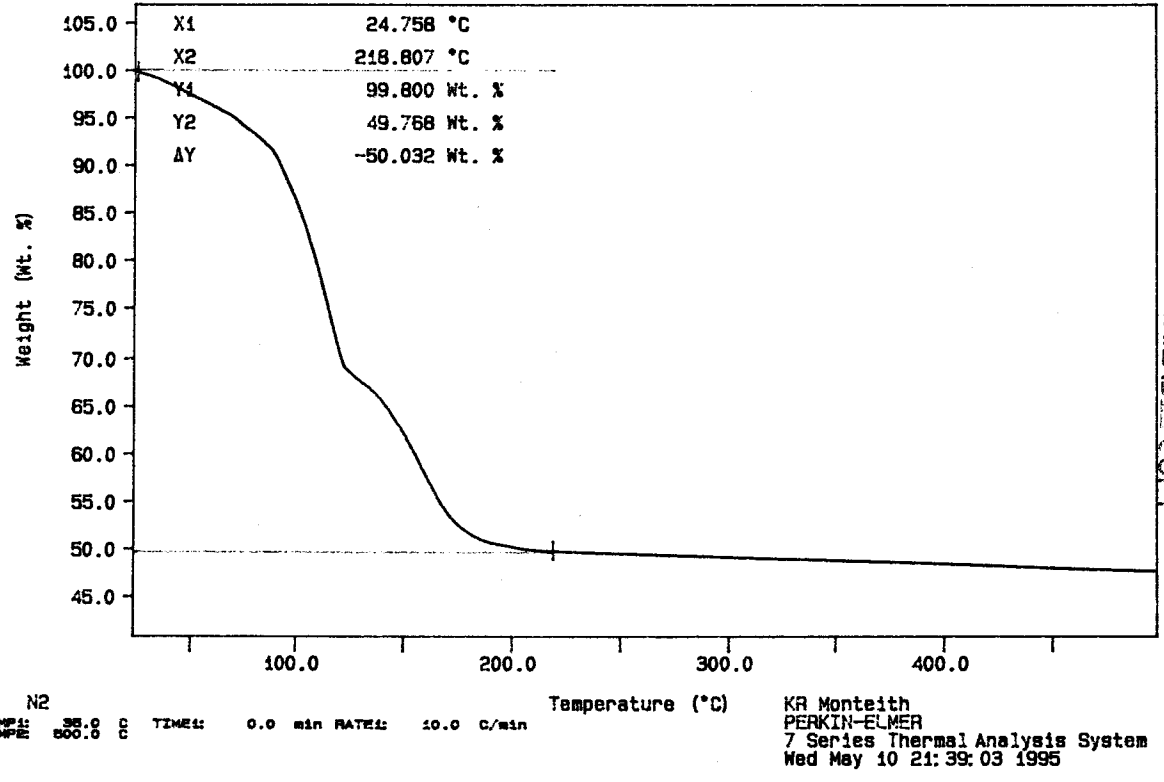


N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KR Monteith
PERKIN ELMER
222-S Lab
Wed May 10 19:23:56 1995

WHC-SD-WM-DP-154, REV.0
BEST AVAILABLE COPY

Curve 1: TGA
File info: sam051005 Wed May 10 21:36:47 1995
Sample Weight: 18.198 mg
S95T000765(dup). 10C/min

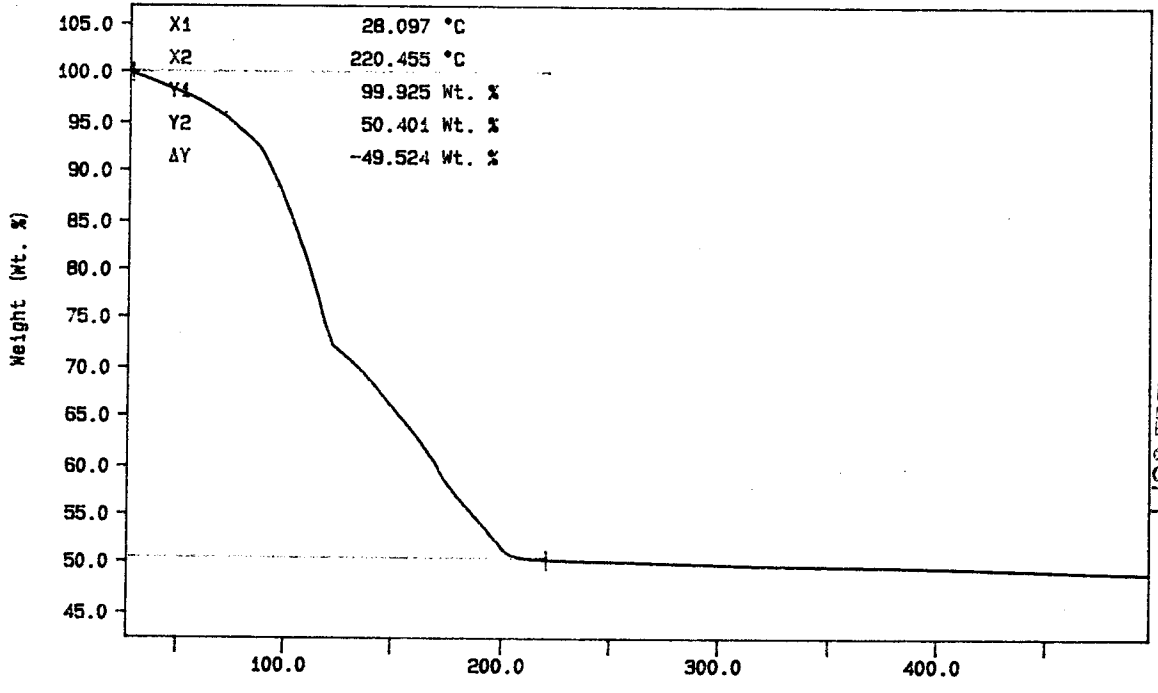


N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Wed May 10 21:39:03 1995

WHC-SD-WM-DP-154, REV. 0
TEST AVAILABLE COPY

Curve 1: TGA
File info: sam051006 Wed May 10 22:42:36 1995
Sample Weight: 16.909 mg
S95T000768, 10C/min

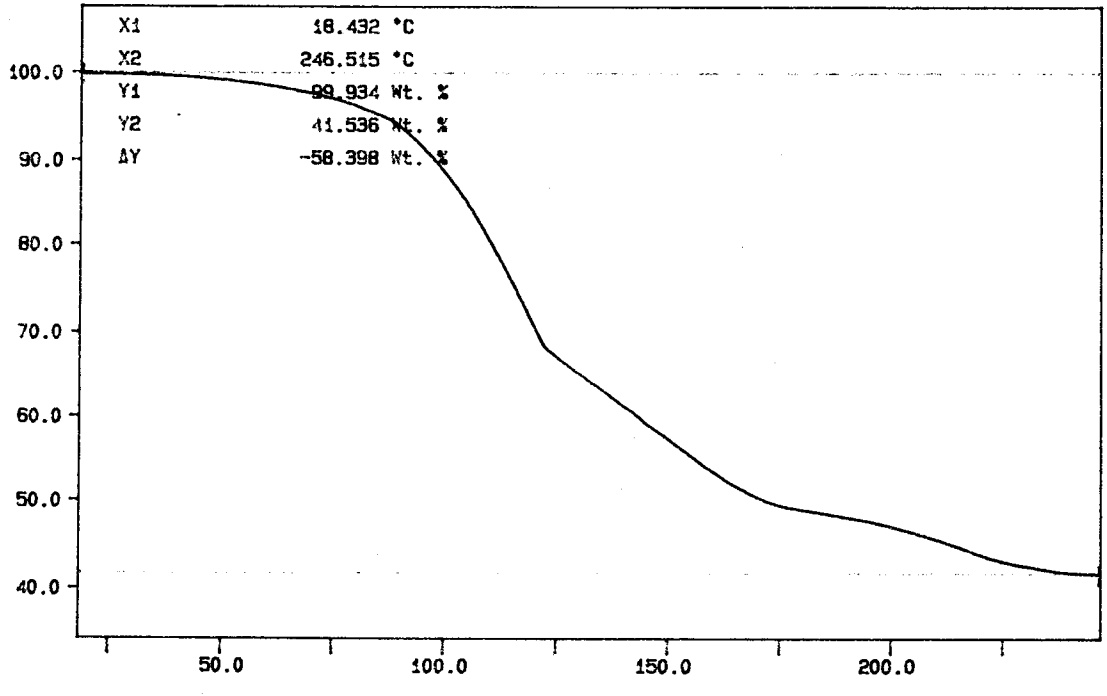


N2
TEMP1: 38.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Wed May 10 22:43:17 1995

BEST AVAILABLE COPY

Curve 1: TGA
File info: ter051501 Mon May 15 00:52:59 1995
Sample Weight: 14.044 mg
42N8A Terliq



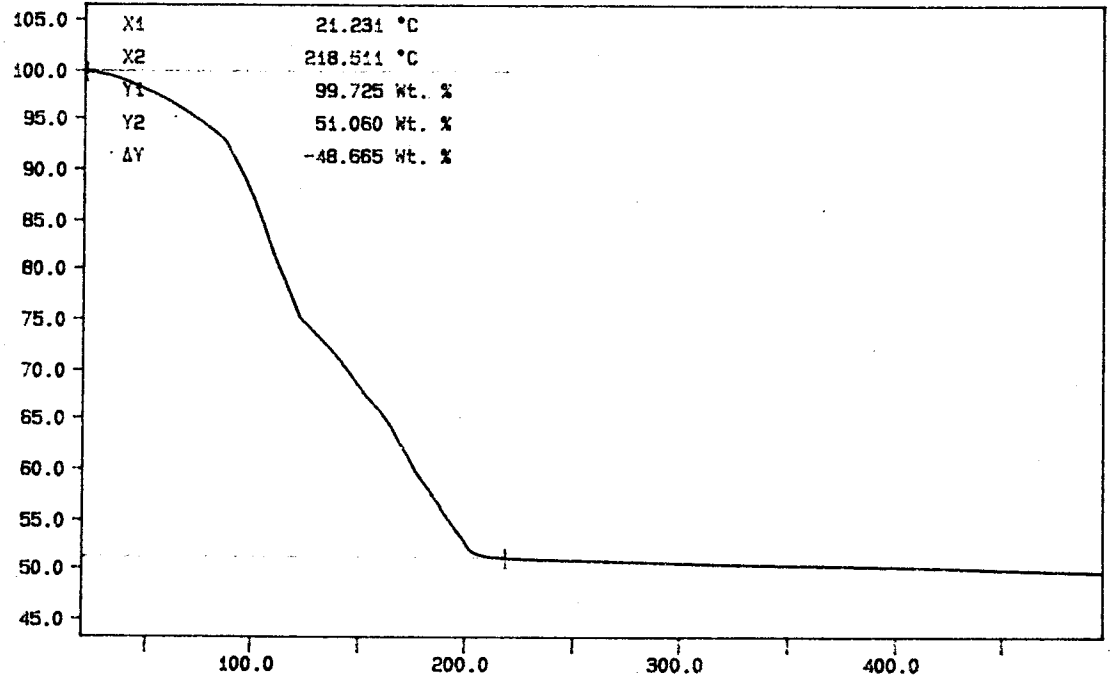
N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Mon May 15 01:04:19 1995

5-15-95

WHC-SD-WM-DP-154, REV.0
BEST AVAILABLE COPY

Curve 1: TGA
File info: sam051501 Mon May 15 03:12:19 1995
Sample Weight: 18.776 mg
S95T000768, 10C/min
(dup) PPK 3/5/96



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Mon May 15 03:14:10 1995

WHC-SD-WM-DP-154, REV.0
BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist# 1243

Analyst: SMF **Instrument:** TGA01 03 5/16/95 BDV **Book #** 42N8-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-03	SOLID	59.19	57.96	N/A	%
95000057	BX-109	2	SAMPLE	S95T000771	0		TGA-03	SOLID	N/A	48.91		%
95000057	BX-109	3	DUP	S95T000771	0		TGA-03	SOLID	48.91	49.02	N/A	%
..		4	STD				TGA-03	SOLID	59.19	58.40	N/A	%
95000057	BX-109	5	SAMPLE	S95T000774	0		TGA-03	SOLID	N/A	47.98		%
95000057	BX-109	6	DUP	S95T000774	0		TGA-03	SOLID	47.98	48.87	N/A	%

Final page for worklist # 1243

See attached for signatures 5/16/95 BDV
Analyst Signature **Date**

5-16-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/17/95

Data Entry Comments: This worklist was split between two different days and run by two different technicians.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.0 02/21/95
04/27/95 09:17

LABCORE Data Entry Template for Worklist# 1243

Analyst: SMF **Instrument:** TGA01 **Book #** 42N8-17

Method: LA-~~560-112~~ Rev/Mod 514-114 / 180

Worklist Comment: Please run BX-109 TGA under N2. bdv SMF 5/16/95 BDV

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID			N/A	%
95000057	BX-109	2 SAMPLE	S95T000771	0		TGA-01	SOLID	N/A			%
95000057	BX-109	3 DUP	S95T000771	0		TGA-01	SOLID			N/A	%
95000057	BX-109	4 SAMPLE	S95T000774	0		TGA-01	SOLID	N/A			%
95000057	BX-109	5 DUP	S95T000774	0		TGA-01	SOLID			N/A	%

Final page for worklist # 1243

Susie M. Fulton 5-15-95
Analyst Signature **Date**

Analyst Signature **Date**

Thomas M. Brown 5-15-95

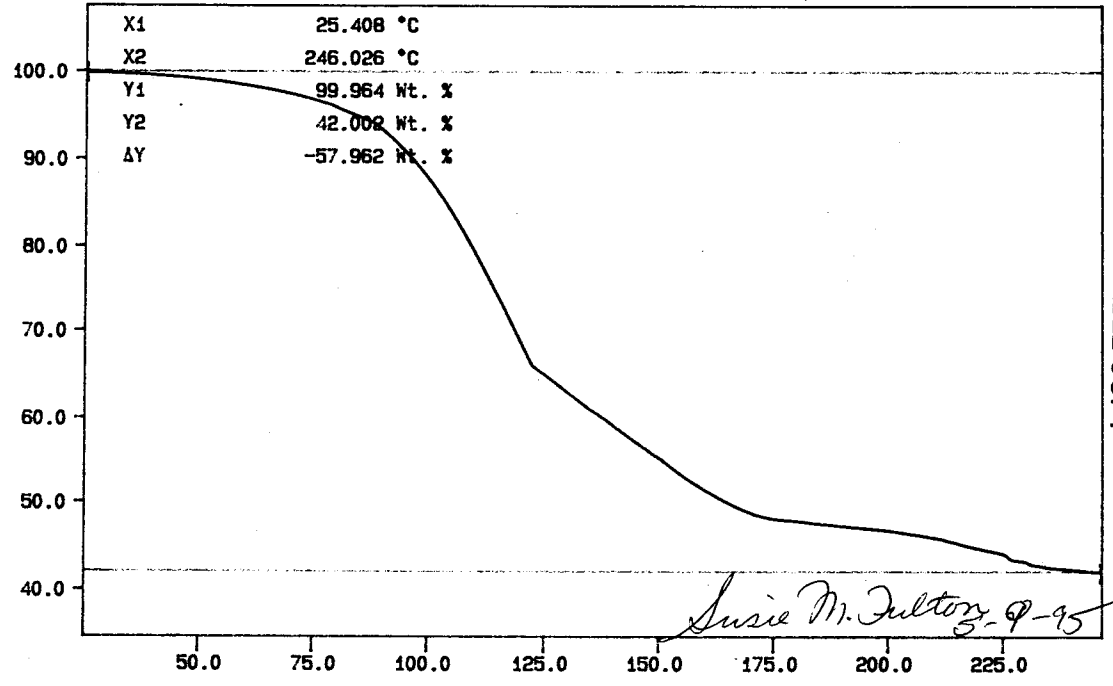
Other instrument was used. 5/16/95 BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: T6A
File info: TER050901 Tue May 9 08:44:35 1995
Sample Weight: 14.267 mg
42N8A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 191 TO 196.



Susie M. Fulton 5-9-95

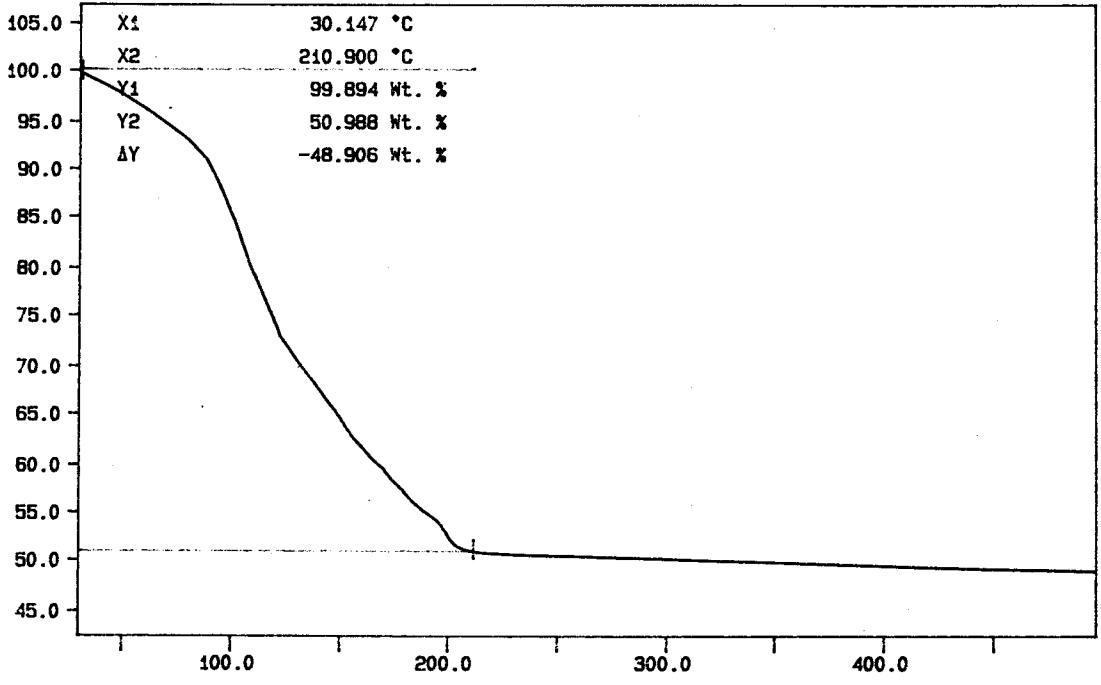
N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Tue May 9 08:51:45 1995

191

BEST AVAILABLE COPY

Curve 1: TGA
File info: SAM050901 Tue May 9 15:05:29 1995
Sample Weight: 18.203 mg
S95T000771, 10C/min

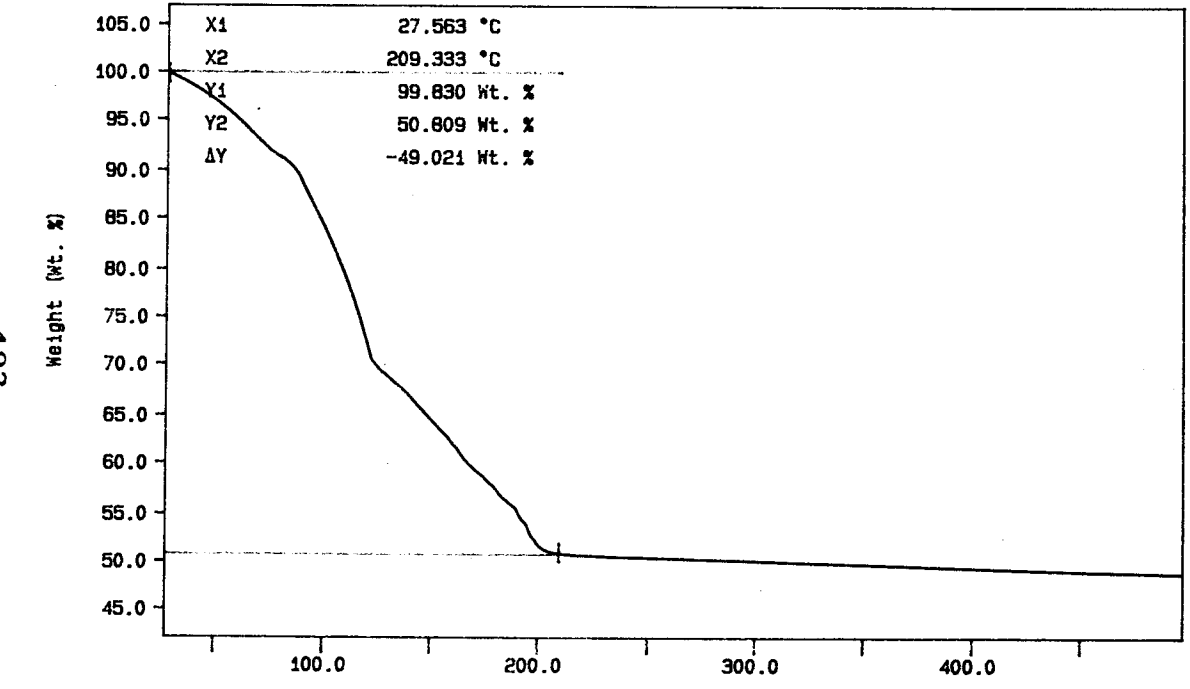


N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Tue May 9 15:11:03 1995

WHC-SD-WM-DP-154, REV.0
BEST AVAILABLE COPY

Curve 1: TGA
File info: SAM050902 Tue May 9 13:46:13 1995
Sample Weight: 19.362 mg
S95T000771(DUP), 10C/min

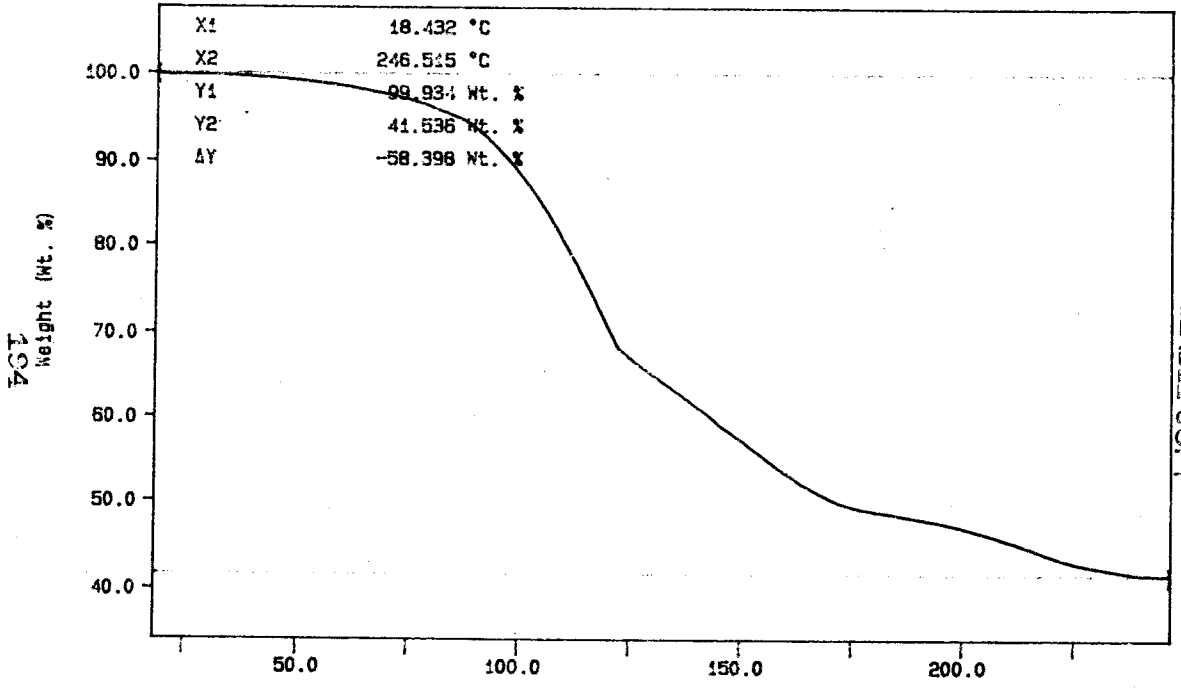


N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Tue May 9 13:53:16 1995

WHC-SD-WM-DP-154, REV.0
BEST AVAILABLE COPY

Curve 1: TGA
File info: ter051501 Mon May 15 00:52:59 1995
Sample Weight: 14.044 mg
42N8A Terliq



TGA

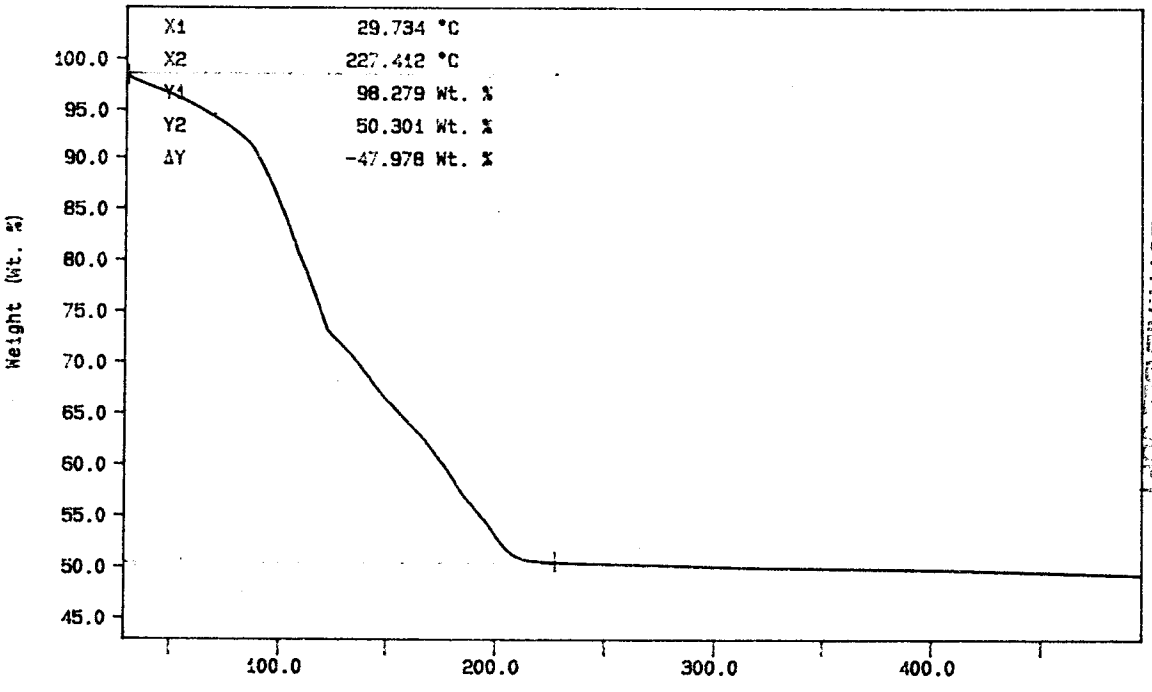
N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Mon May 15 00:59:22 1995

5-15-95

BEST AVAILABLE COPY

Curve 1: TGA
File info: sam051502 Mon May 15 04:17:07 1995
Sample Weight: 17.713 mg
S95T000774, 10C/min

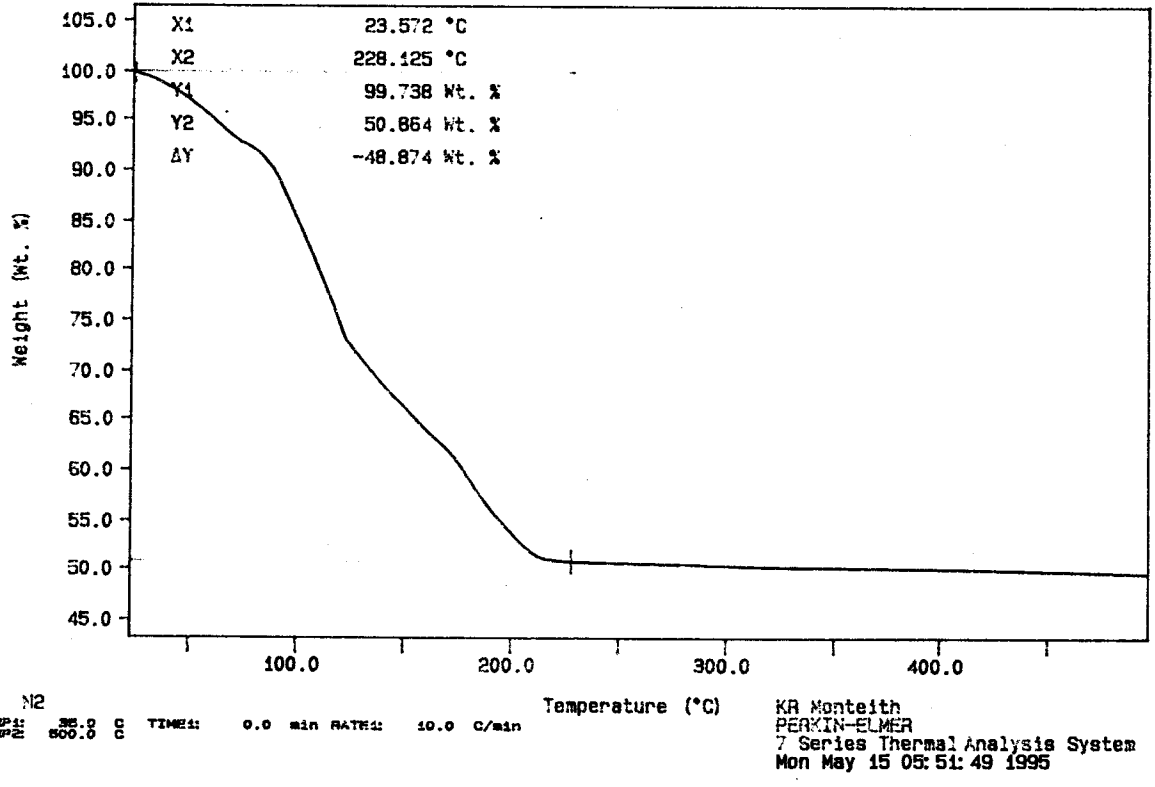


N2
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Mon May 15 04:52:46 1995

TEST AVAILABLE COPY

Curve 1: TGA
File info: sam051503 Mon May 15 05:43:53 1995
Sample Weight: 15.560 mg
S95T00077-4(dup), 10C/min



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Mon May 15 05:51:49 1995

WHC-SD-WM-DP-154, REV.0
BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist# 1244

Analyst: KRM **Instrument:** TGA01 **Book #** 42NBA

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.19	59.17	N/A	%
95000057	BX-109	2	SAMPLE	S95T000777	0		TGA-01	SOLID	N/A	52.78		%
95000057	BX-109	3	DUP	S95T000777	0		TGA-01	SOLID	52.78	52.92	N/A	%
95000059	BX-109	4	SAMPLE	S95T000780	0		TGA-01	SOLID	N/A	52.56		%
95000059	BX-109	5	DUP	S95T000780	0		TGA-01	SOLID	52.56	52.78	N/A	%

Final page for worklist # 1244

5-10-95
Analyst Signature **Date**

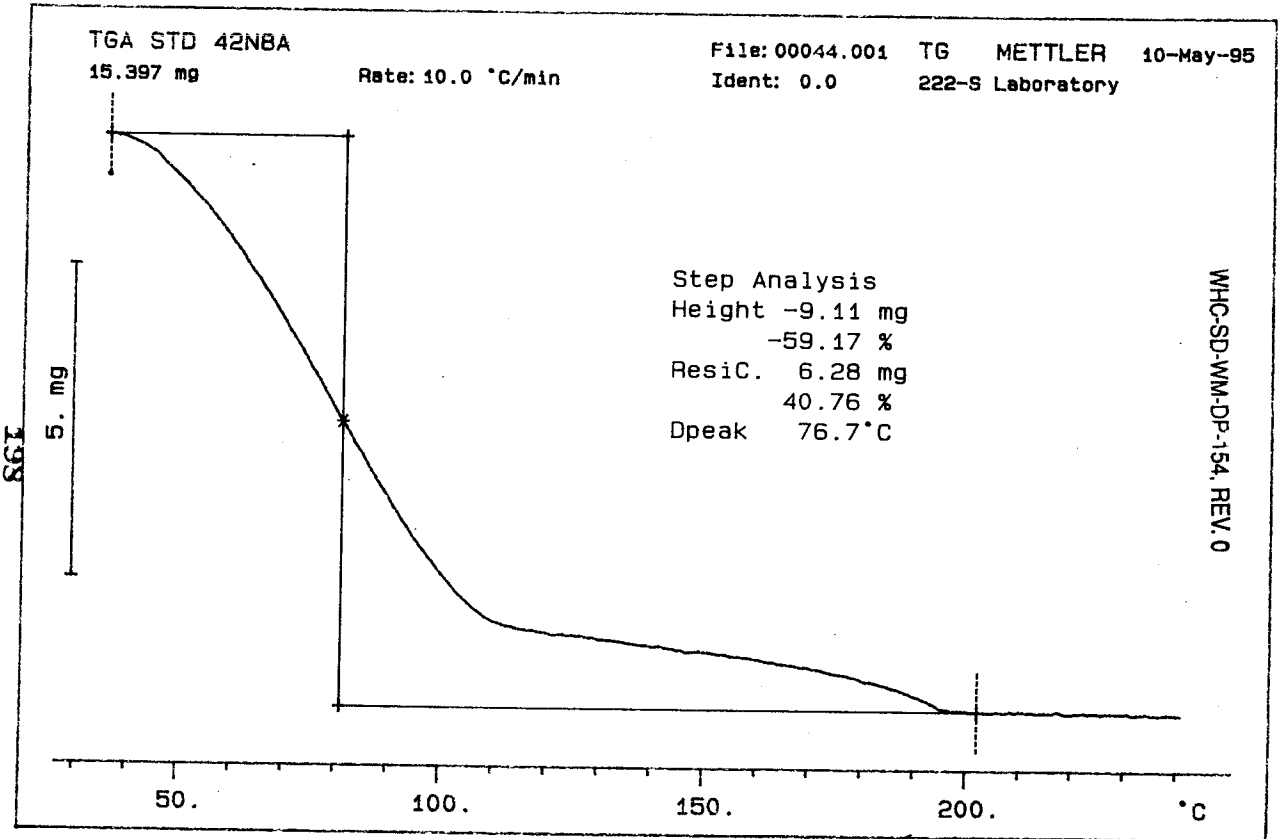
5-12-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/15/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 198 TO 202.

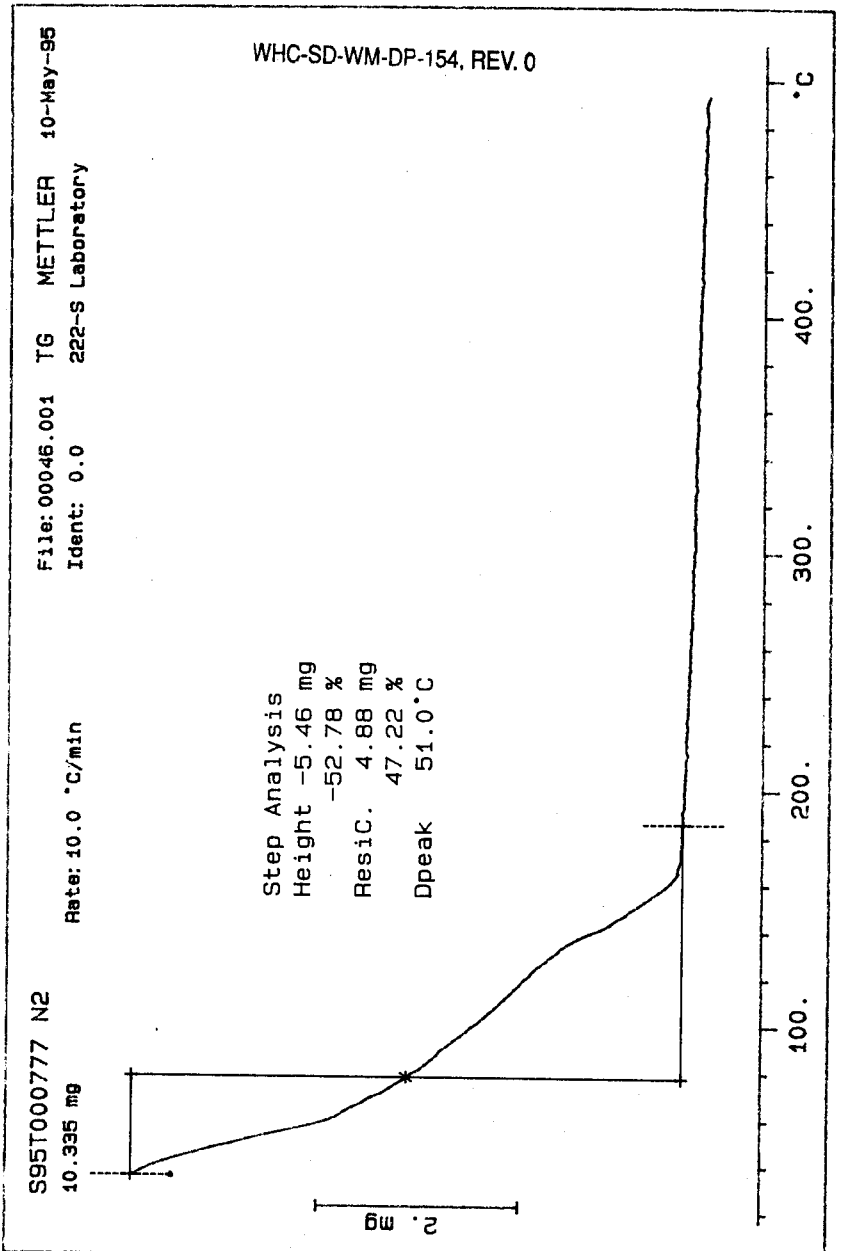


198

5-10-95

BEST AVAILABLE COPY

BEST AVAILABLE COPY



BEST AVAILABLE COPY

BEST AVAILABLE COPY

BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist# 1245

Analyst: DCD **Instrument:** TGA01 **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.19	54.87	N/A	%
95000059	BX-109	2	SAMPLE	S95T000786	0		TGA-01	SOLID	N/A	51.36		%
		3	STD				TGA-01	SOLID	59.19	58.01	N/A	%
95000059	BX-109	4	DUP	S95T000786	0		TGA-01	SOLID	51.36	49.58	N/A	%
95000059	BX-109	5	SAMPLE	S95T000789	0		TGA-01	SOLID	N/A	50.65		%
95000059	BX-109	6	DUP	S95T000789	0		TGA-01	SOLID	50.65	43.72	N/A	%

Final page for worklist # 1245

See attached for signatures 5/16/95 BDV
Analyst Signature **Date**

5-16-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/17/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1245

Analyst: DCD **Instrument:** TGA01 ~~AE11008~~ 5/16/95 BDV ~~WE16129~~ **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000059	BX-109	2	SAMPLE	S95T000786	0		TGA-01	SOLID	N/A			%
95000059	BX-109	3	DUP	S95T000786	0		TGA-01	SOLID			N/A	%
95000059	BX-109	4	SAMPLE	S95T000789	0		TGA-01	SOLID	N/A			%
95000059	BX-109	5	DUP	S95T000789	0		TGA-01	SOLID			N/A	%

Final page for worklist # 1245

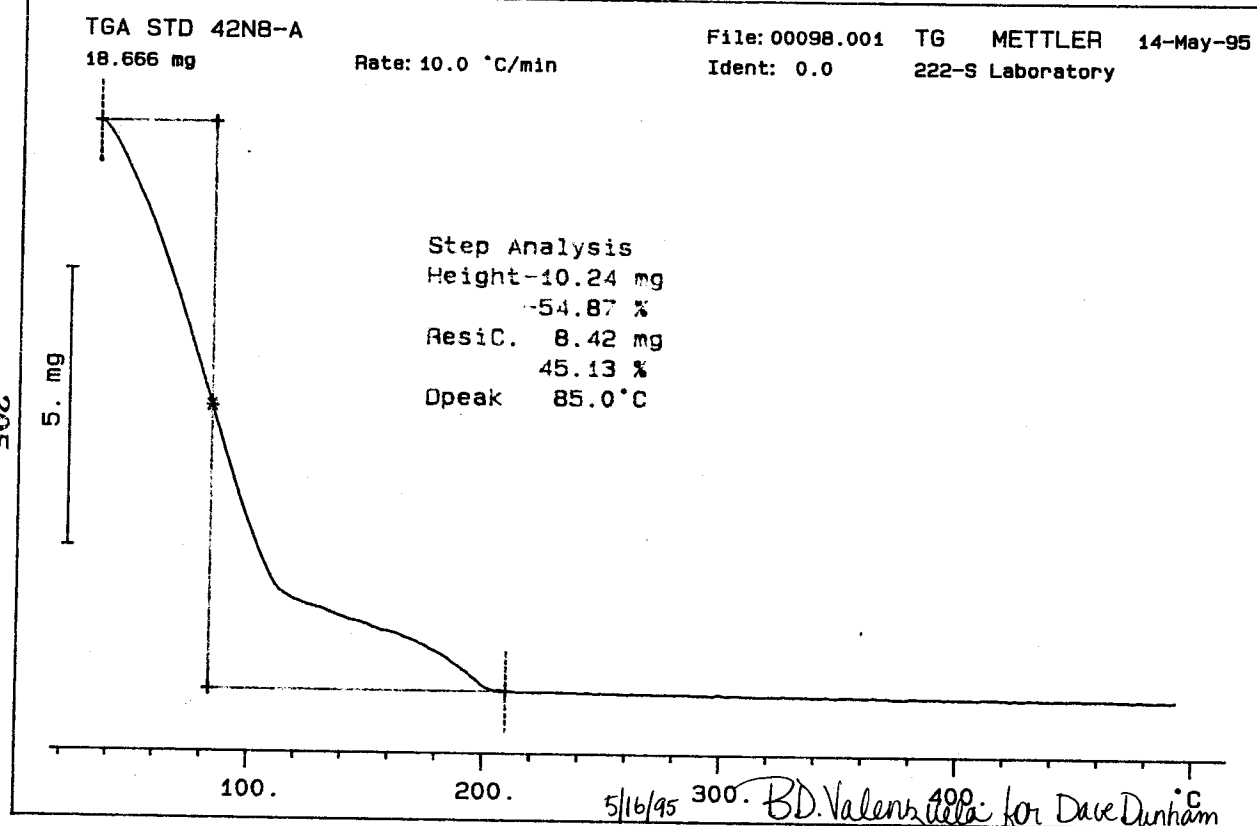
Daniel C Dunham 5-16-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments: Both samples are a redish-brown paste.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 205 TO 210.

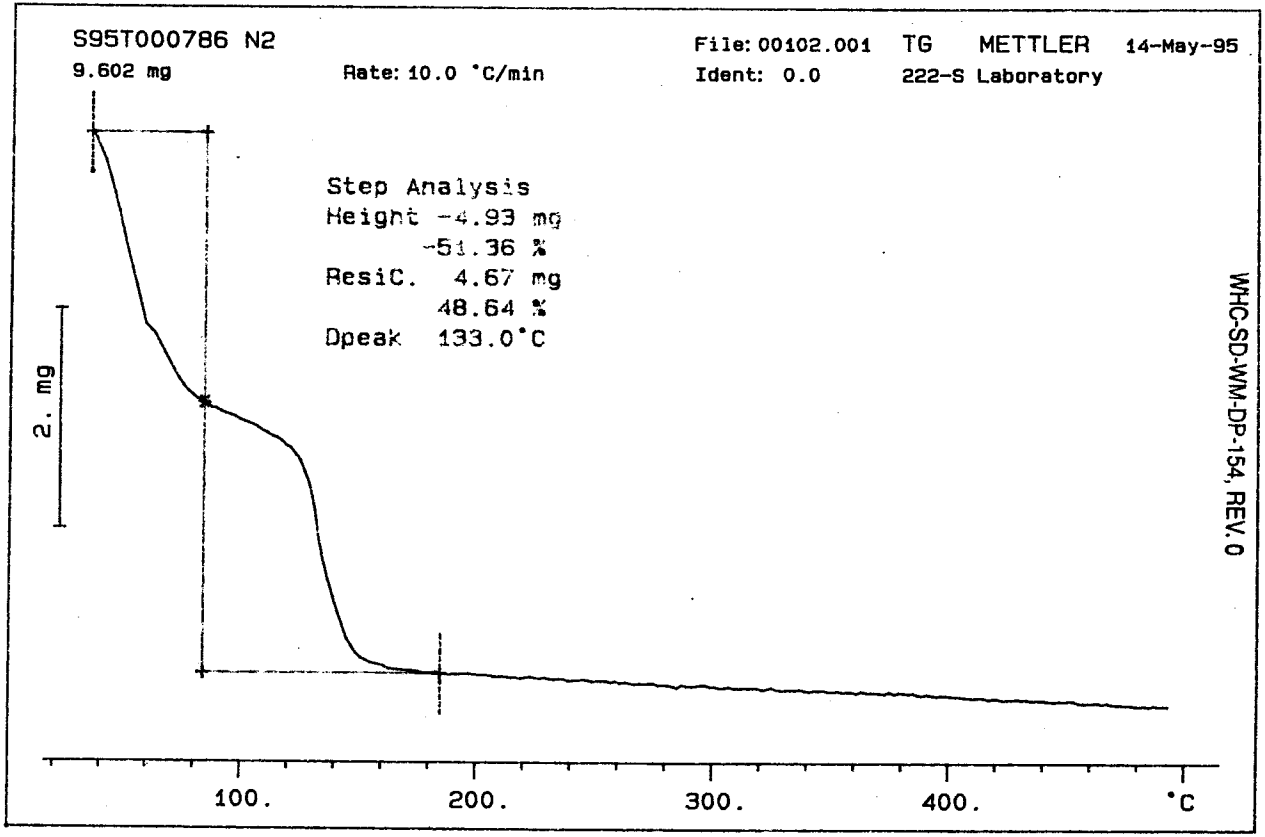


5/16/95 B.D. Valenzuela for Dave Dunham

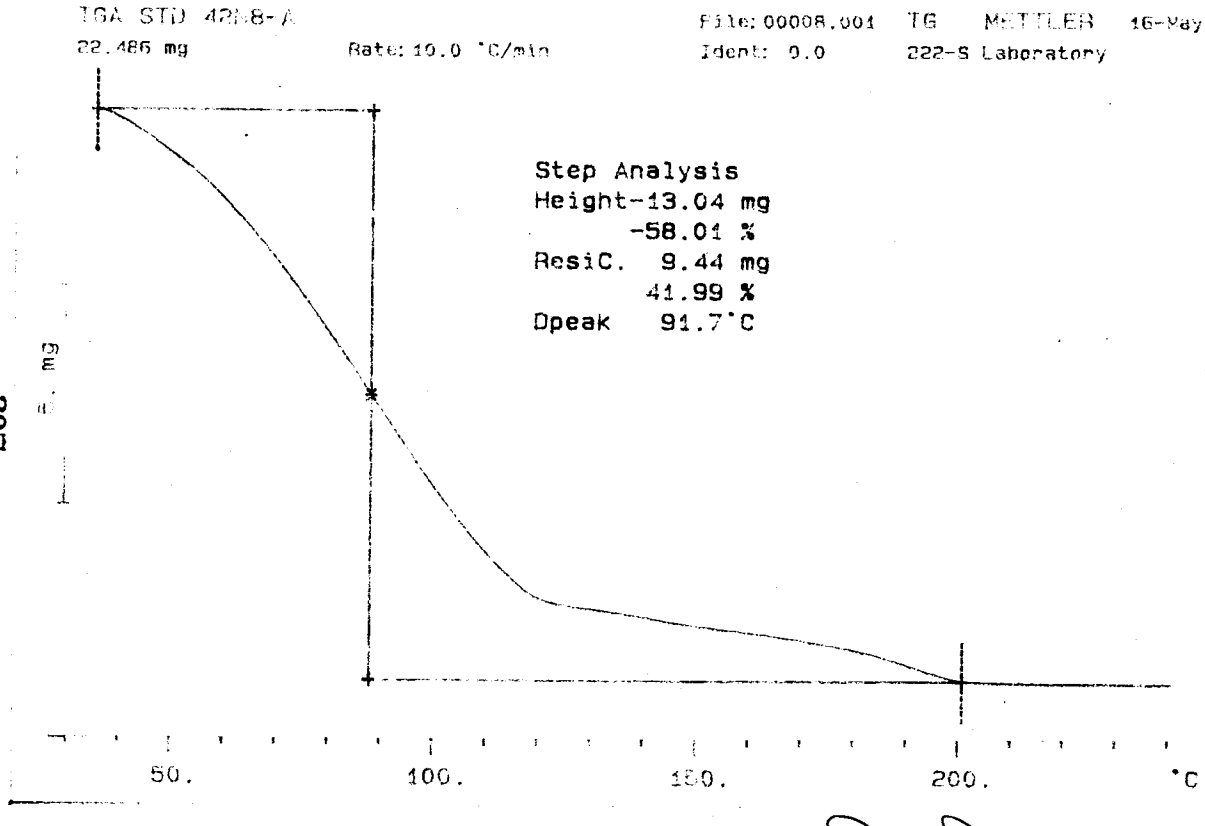
205

BEST AVAILABLE COPY

BEST AVAILABLE COPY

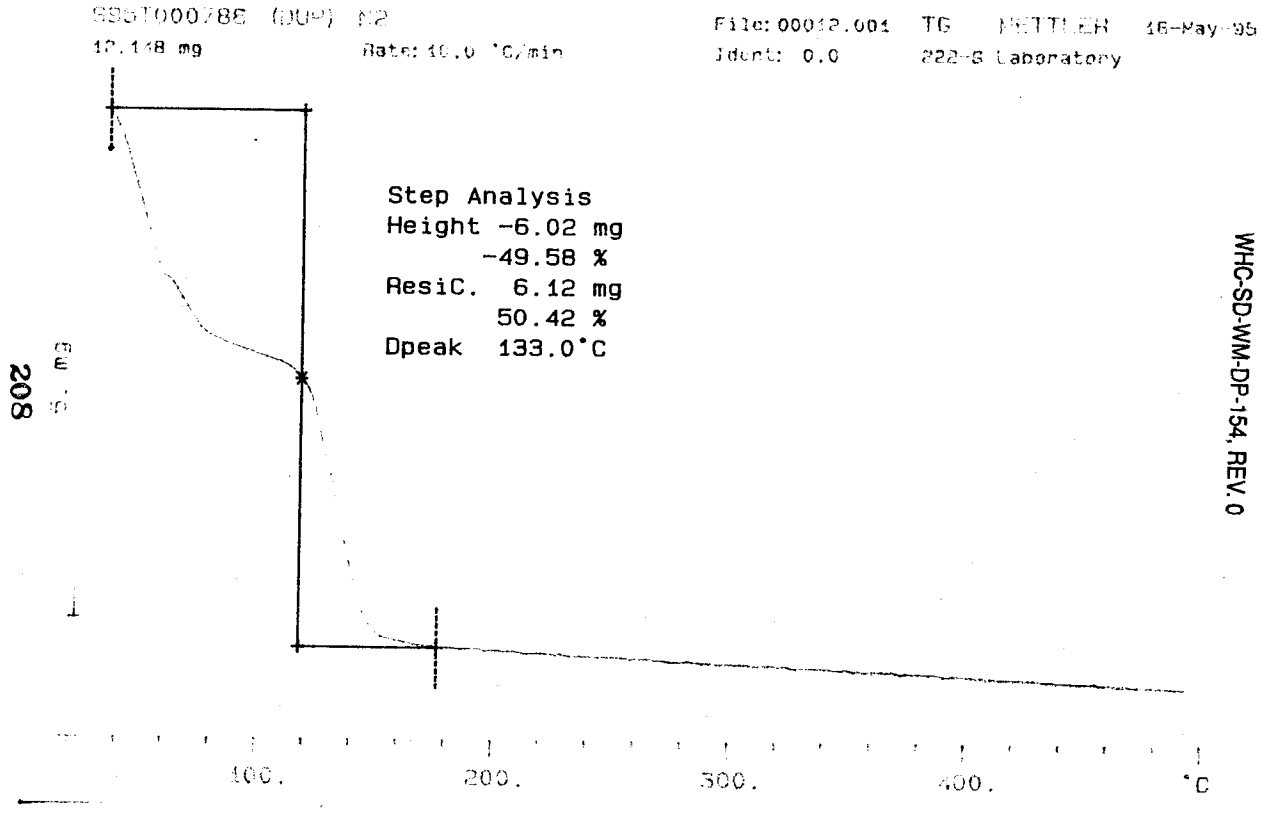


BEST AVAILABLE COPY

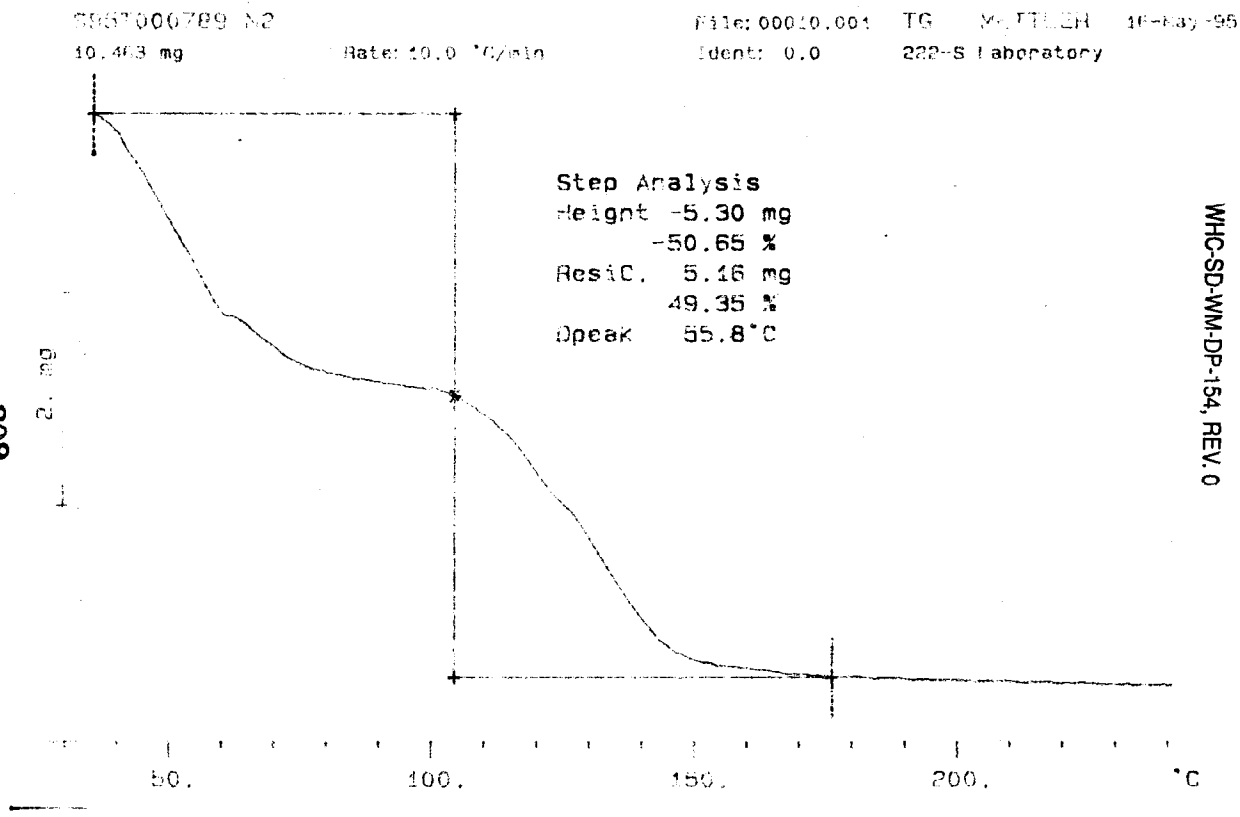


David Dunham 5-16-95

BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist# 1246

Analyst: SMF **Instrument:** TGA01 _____ **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.19	59.06	N/A	%
95000059	BX-109	2 SAMPLE	S95T000836	0		TGA-01	SOLID	N/A	51.23		%
95000059	BX-109	3 DUP	S95T000836	0		TGA-01	SOLID	51.23	50.86	N/A	%
95000059	BX-109	4 SAMPLE	S95T000839	0		TGA-01	SOLID	N/A 5/16/95 BDV	50.98		%
95000059	BX-109	5 DUP	S95T000839	0		TGA-01	SOLID	50.98	51.70	N/A	%

Final page for worklist # 1246

Analyst Signature 5-12-95 Date

Analyst Signature 5-16-95 Date

Verified by Blandina Valenzuela 5/16/94

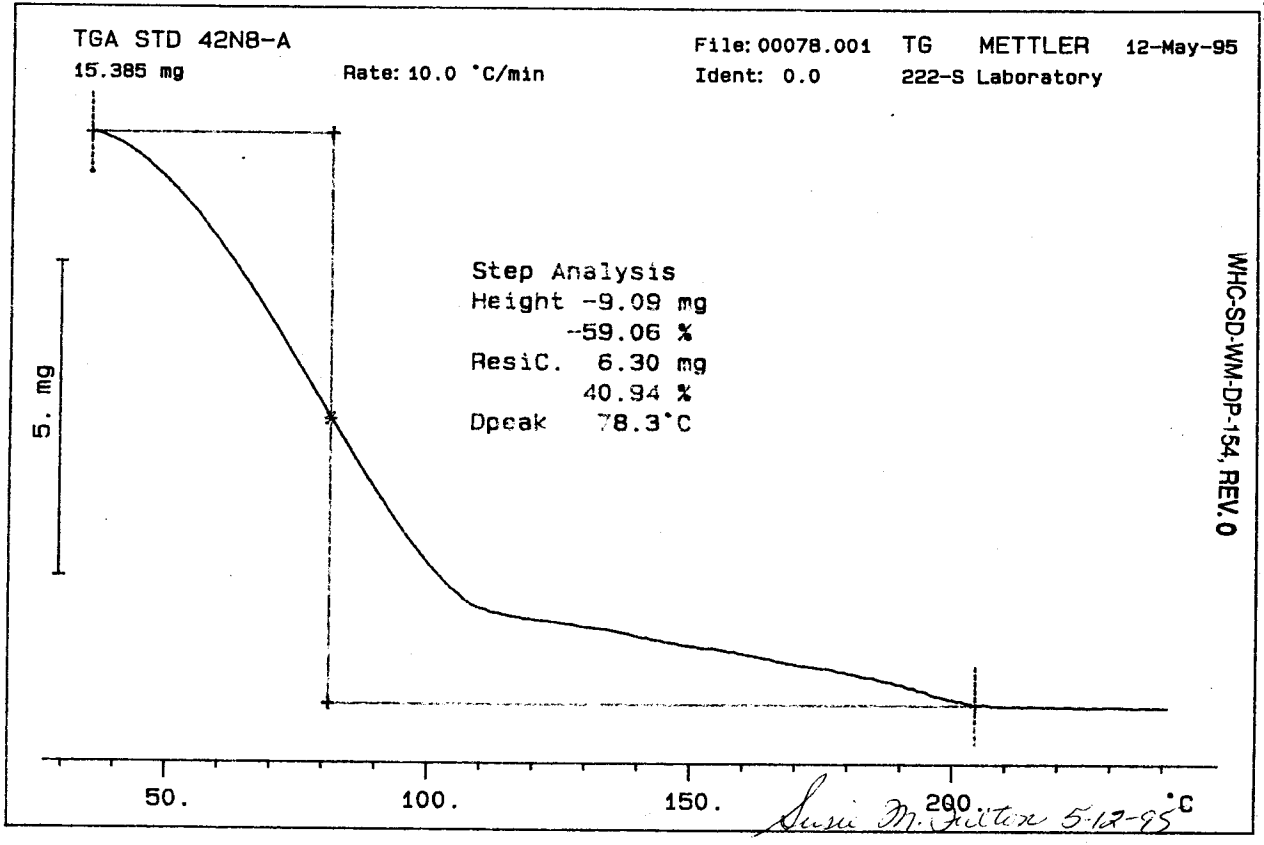
Data Entry Comments:

Both samples are a soft creamy ~~tan~~ 5/16/95 BDV Med brown mud

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

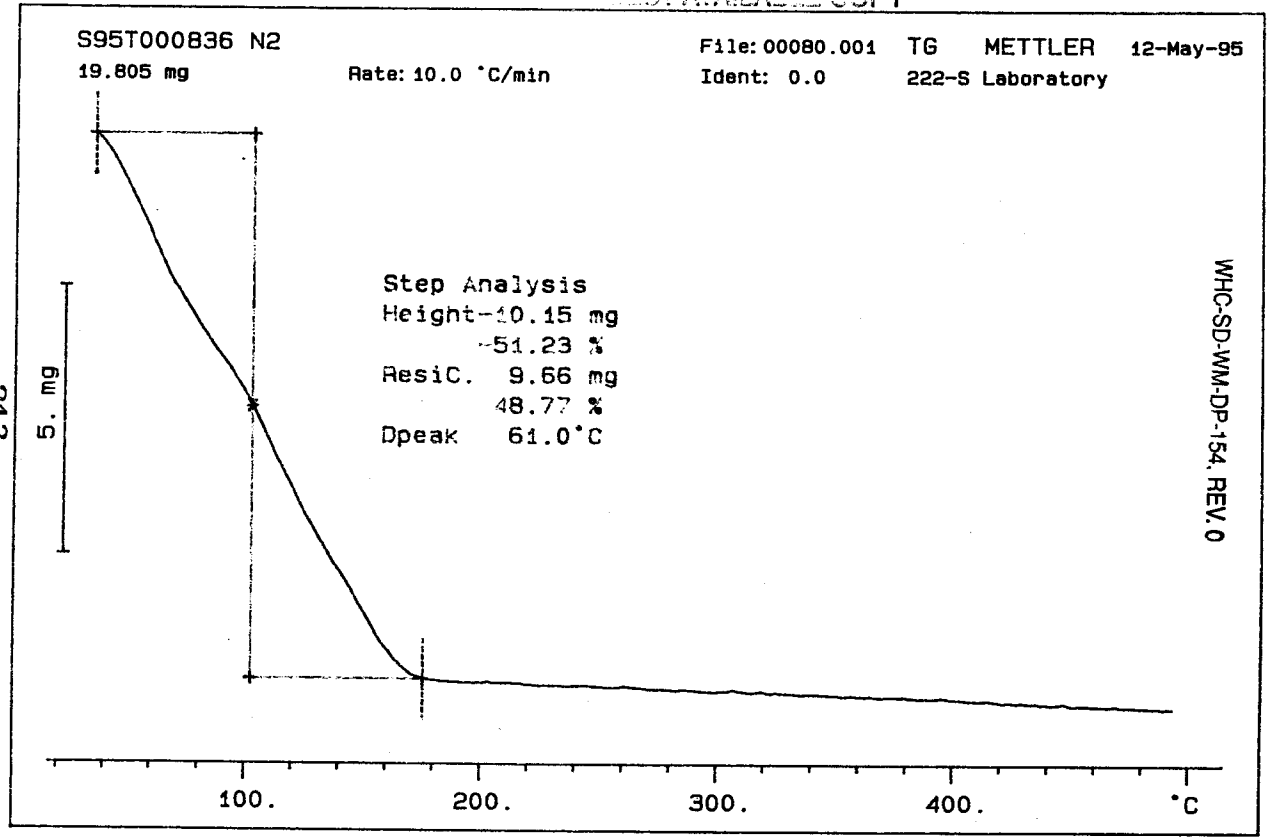
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 212 TO 216.

BEST AVAILABLE COPY

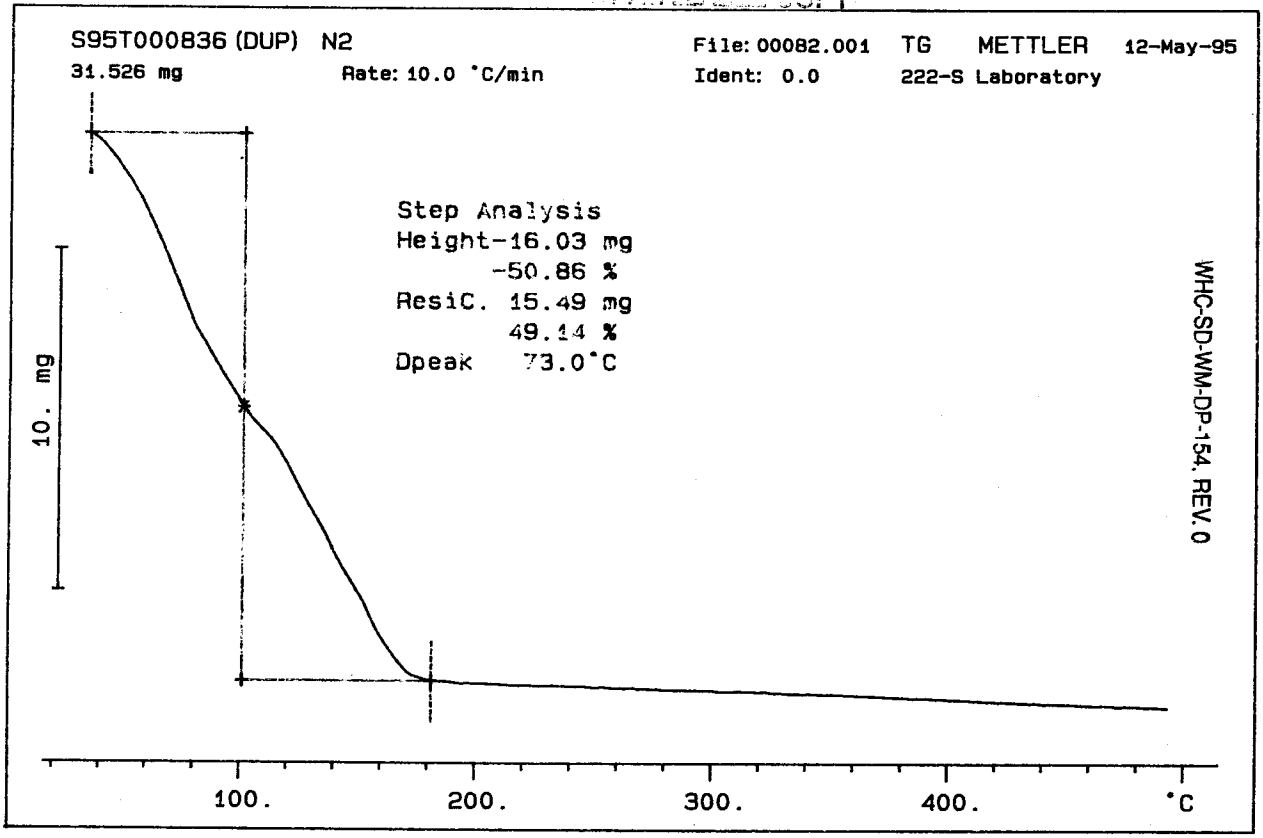


Susie M. Fulton 5-12-95

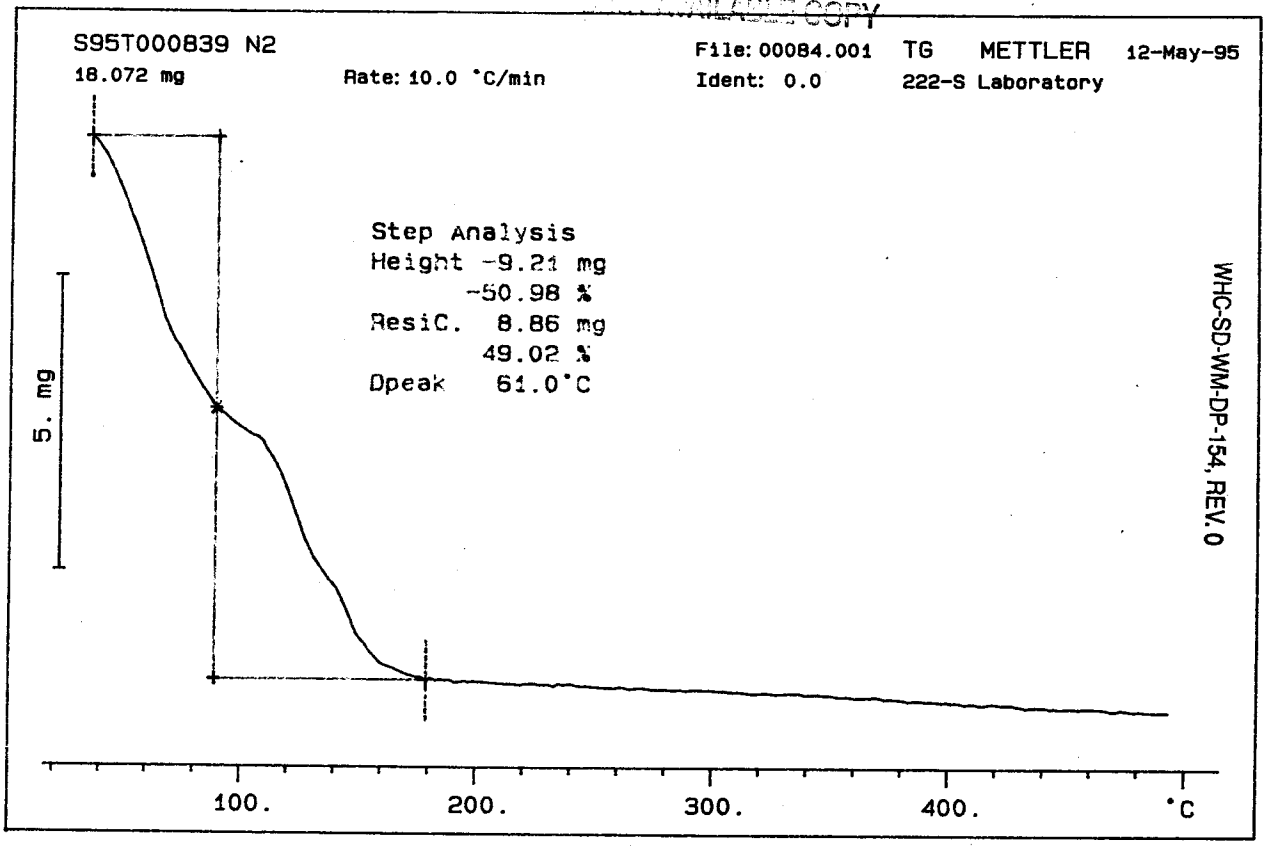
AVAILABLE COPY



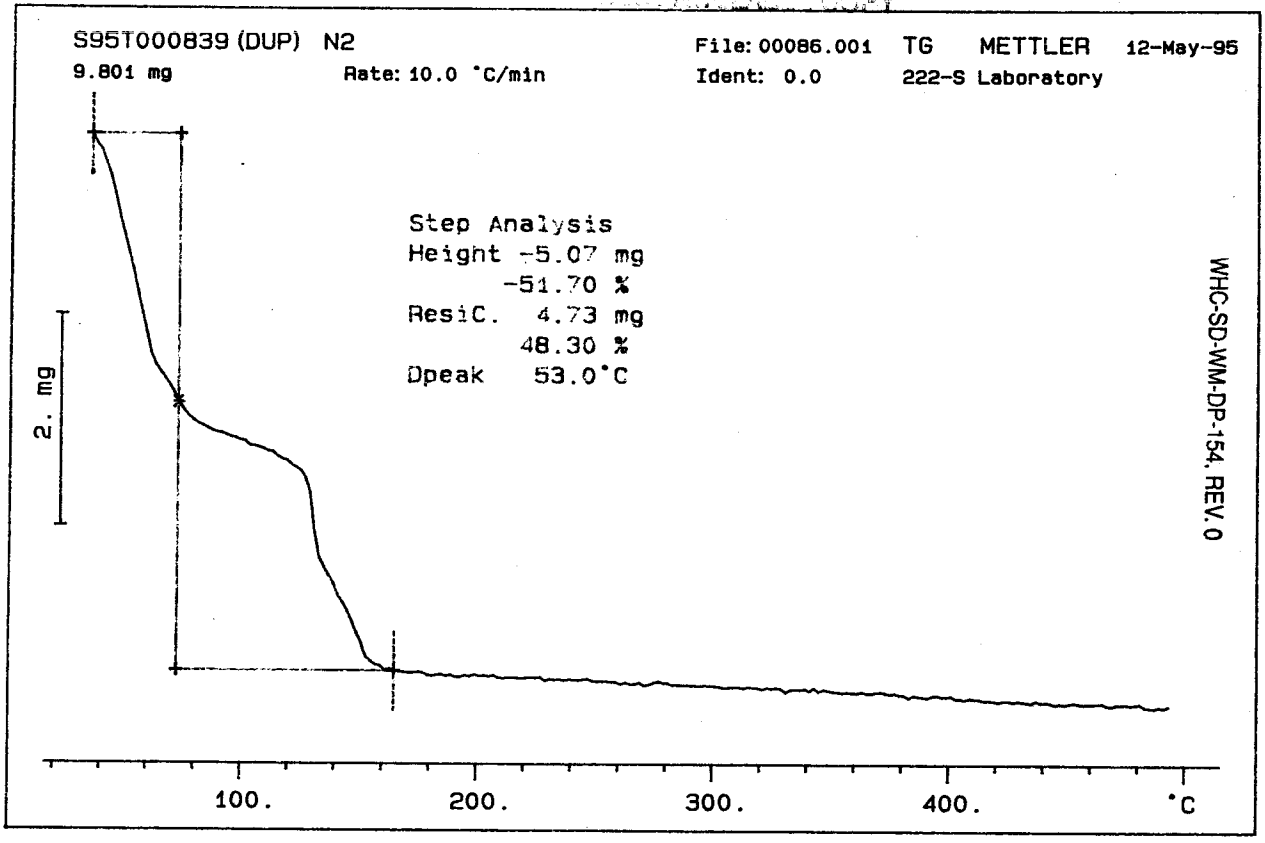
AVAILABLE COPY



AVAILABLE COPY



AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 1247

Analyst: SMF **Instrument:** TGA01 **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.19	58.98	N/A	%
95000059	BX-109	2 SAMPLE	S95T000847	0		TGA-01	SOLID	N/A	51.29		%
95000059	BX-109	3 DUP	S95T000847	0		TGA-01	SOLID	51.29	51.39	N/A	%
		4 STD				TGA-01	SOLID	59.19	58.83 ~~58.98~~	5/22/95 N/A BDV	%
95000059	BX-109	5 SAMPLE	S95T000850	0		TGA-01	SOLID	N/A	53.46		%
95000059	BX-109	6 DUP	S95T000850	0		TGA-01	SOLID	53.46	54.63	N/A	%

Final page for worklist # 1247

See attached for signatures 5/22/95 BDV
Analyst Signature **Date**

5-22-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/22/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1247

Analyst: SMF **Instrument:** TGA01 **Book #** 4128-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID			N/A	%
95000059	BX-109	2 SAMPLE	S95T000847	0		TGA-01	SOLID	N/A			%
95000059	BX-109	3 DUP	S95T000847	0		TGA-01	SOLID			N/A	%
95000059	BX-109	4 SAMPLE	S95T000850	0		TGA-01	SOLID	N/A			%
95000059	BX-109	5 DUP	S95T000850	0		TGA-01	SOLID			N/A	%

Final page for worklist # 1247

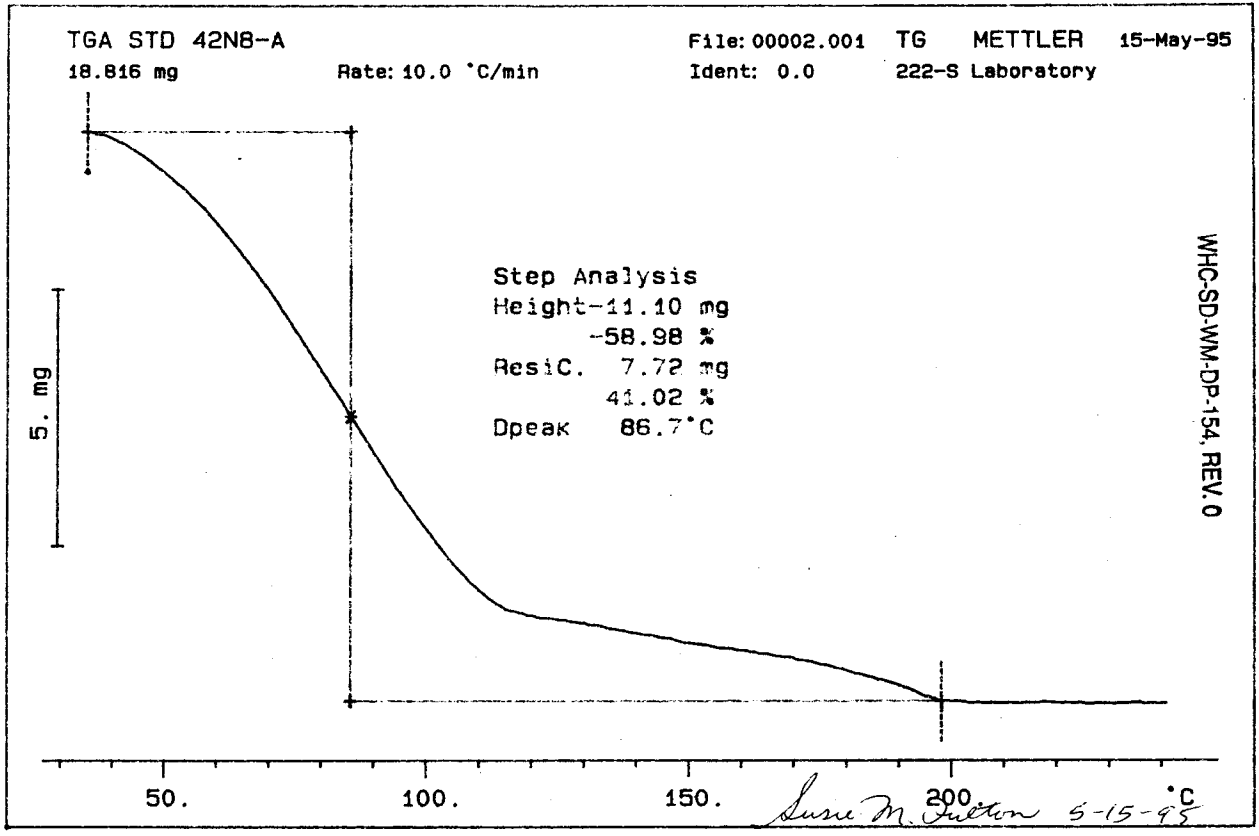
Susie M. Dalton 5-18-95

Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

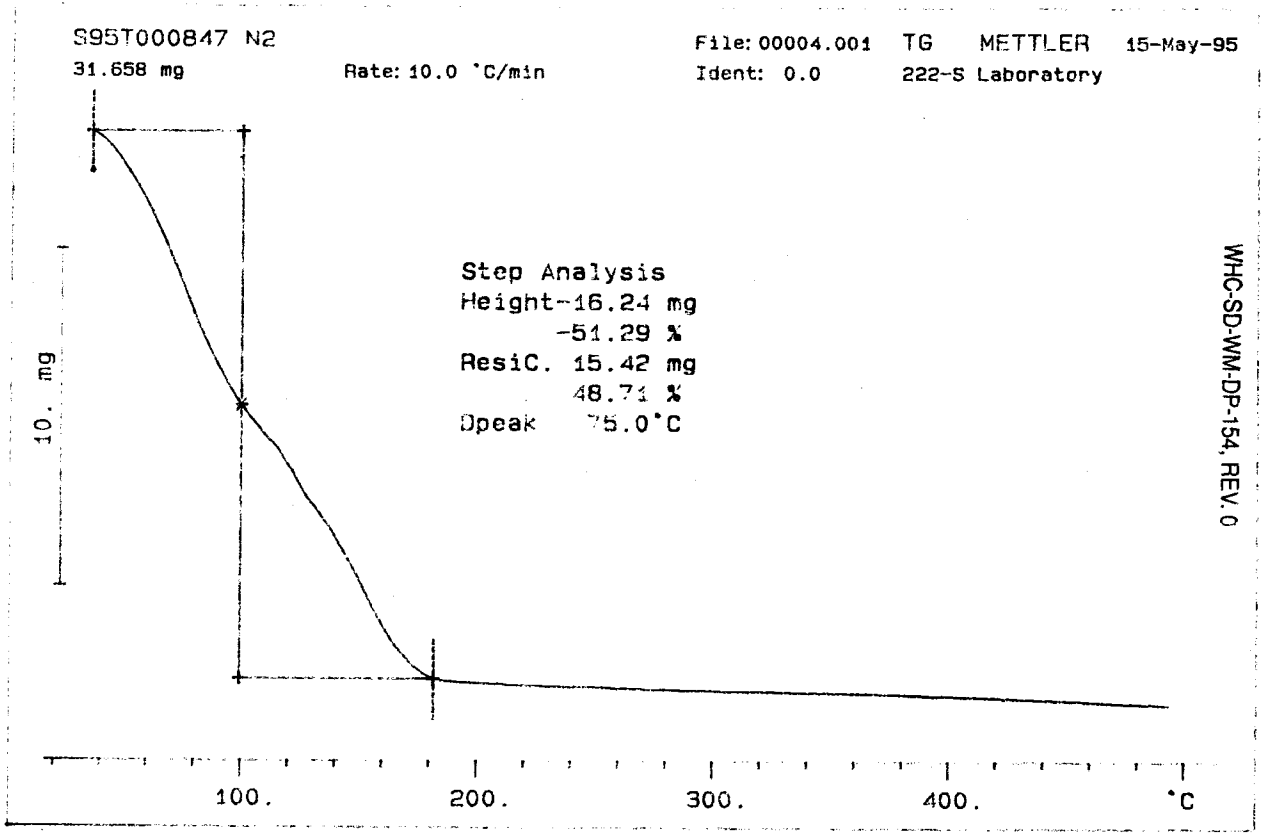
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 219 TO 225.



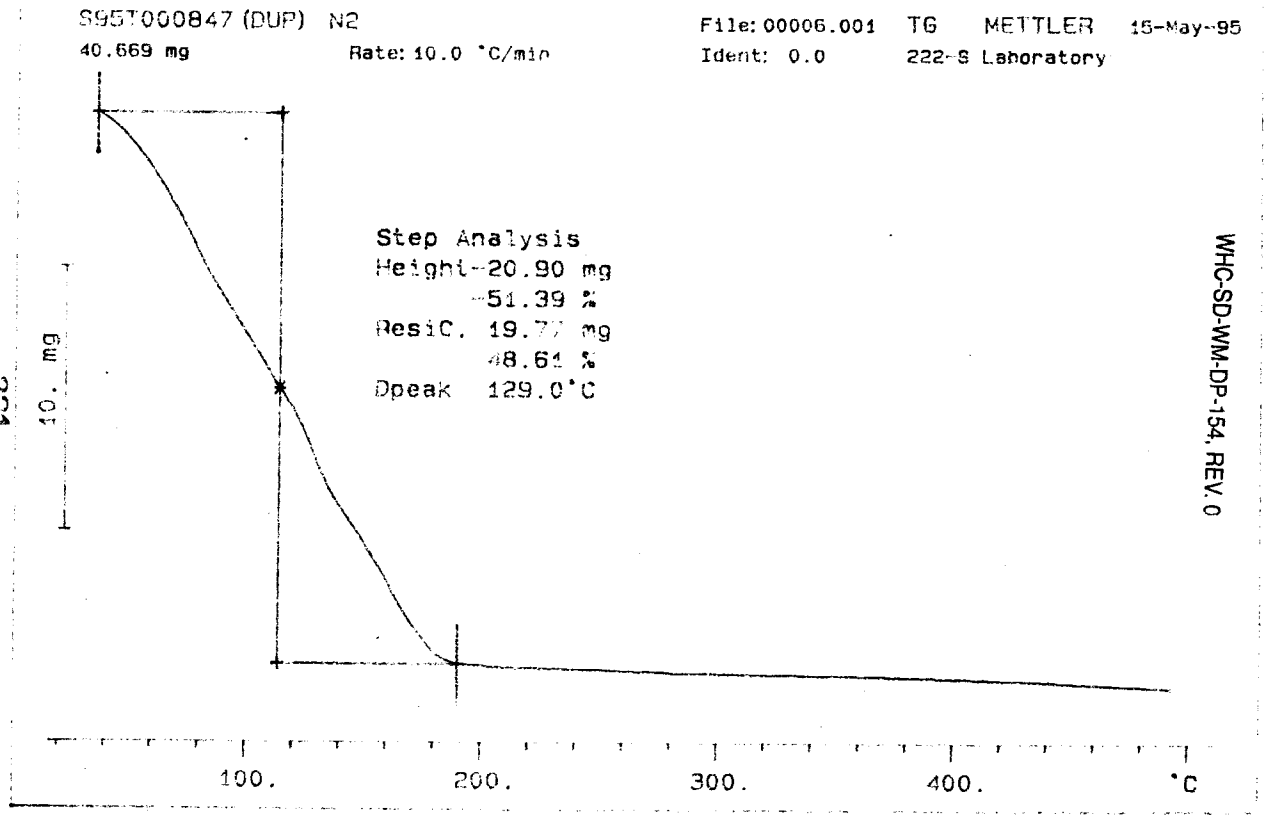
WHC-SD-WM-DP-154, REV.0

BEST AVAILABLE COPY

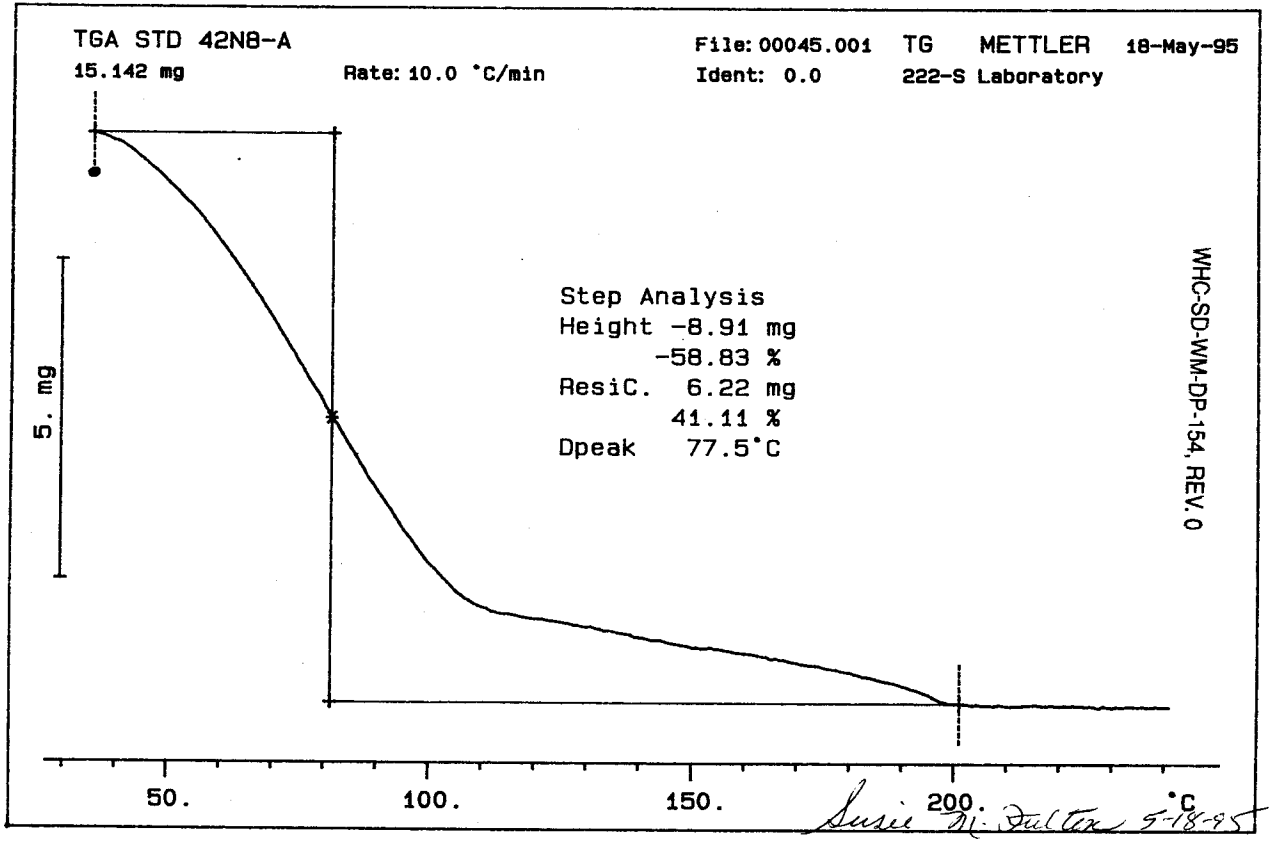
BEST AVAILABLE COPY



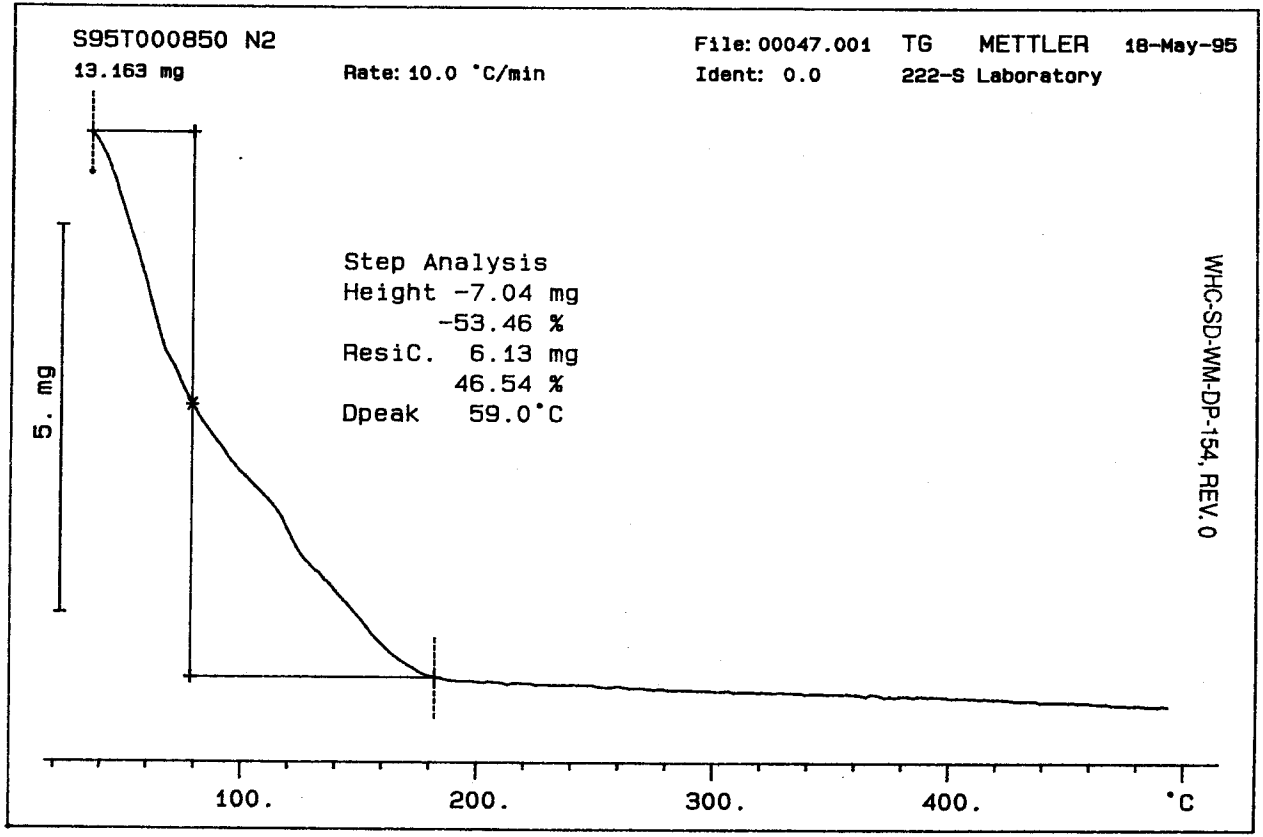
AVAILABLE COPY



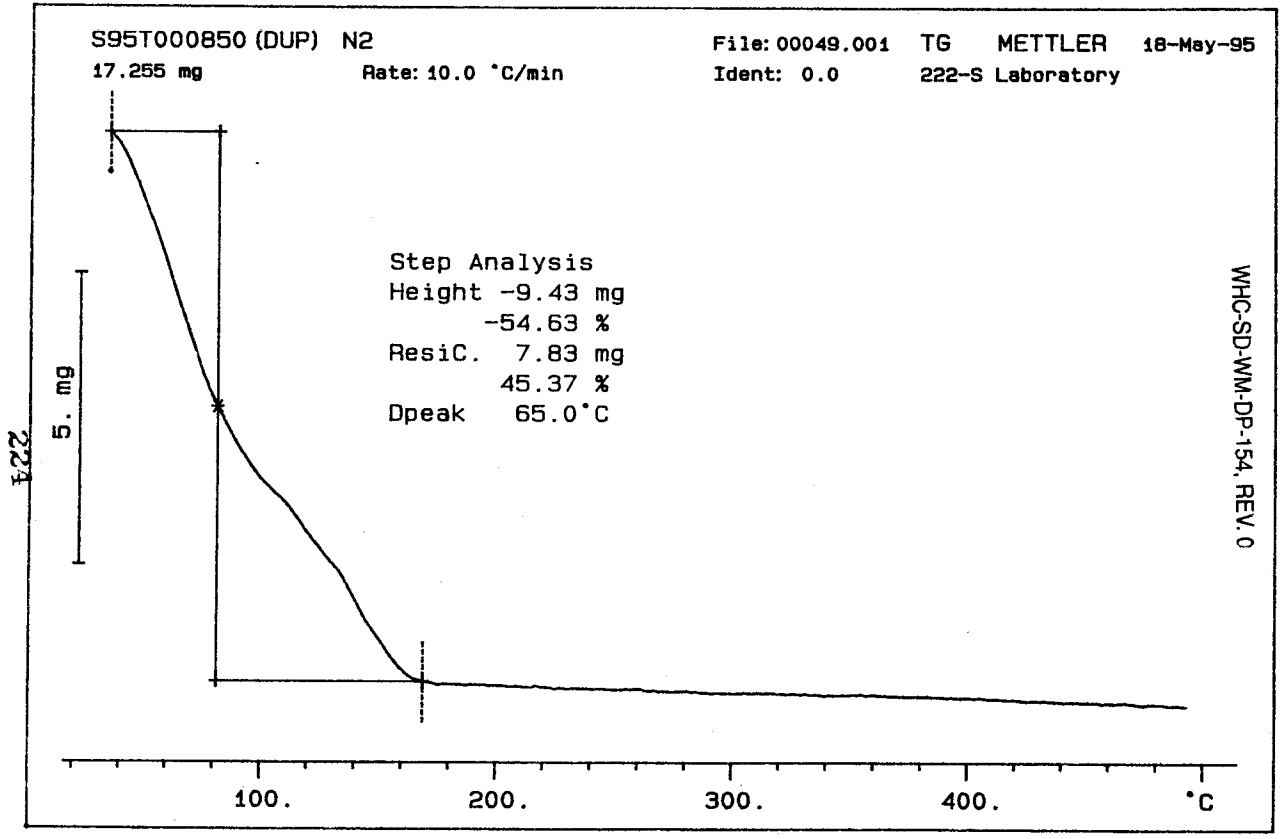
AVAILABLE COPY



BEST AVAILABLE COPY



AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 1253

Analyst: KRM **Instrument:** TGA01 03 5/18/95 BDV **Book #** 42N8-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	LIQUID	59.19	57.40	N/A	%
95000059	BX-109	2 SAMPLE	S95T000783	0		TGA-03	LIQUID	N/A	67.95		%
95000059	BX-109	3 DUP	S95T000783	0		TGA-03	LIQUID	67.45	57.73	N/A	%
		4 STD				TGA-01	LIQUID	59.19	58.76	N/A	%
95000059	BX-109	5 TRIPL ~~SAMPLE~~ 5/18/95 BDV	S95T000783	0		TGA-01	LIQUID	N/A	57.53		%
95000059	BX-109	6 SAMPLE	S95T000853	0		TGA-03	LIQUID	N/A	87.66		%
95000059	BX-109	7 DUP	S95T000853	0		TGA-03	LIQUID	87.66	87.61	N/A	%

Final page for worklist # 1253

See attached for signatures 5/18/95 BDV
Analyst Signature **Date**

5-18-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 5/22/95 BDV

The bump on the first standard is caused by the instrument getting hit. It will not cause any errors in the evaluation.

Data Entry Comments: S95T000783 sample's TGA run was started too early, hence the ~118% on the y-axis. The number was filled in, however there is doubt as to its validity. A third sample was run and agreed well with the duplicate.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code. The third sample was run on a different day with the Mettler TGA. The result is valid.

LABCORE Data Entry Template for Worklist# 1253

Analyst: KRM **Instrument:** TGA01 03 **Book #** 42NB-A

Method: LA-~~560-112~~-514-114 Rev/Mod B-0

Worklist Comment: Please run BX-109 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	LIQUID			N/A	%
95000059	BX-109	2 SAMPLE	S95T000783	0		TGA-01	LIQUID	N/A			%
95000059	BX-109	3 DUP	S95T000783	0		TGA-01	LIQUID			N/A	%
95000059	BX-109	4 SAMPLE	S95T000853	0		TGA-01	LIQUID	N/A			%
95000059	BX-109	5 DUP	S95T000853	0		TGA-01	LIQUID			N/A	%

Final page for worklist # 1253

5-9-95

Analyst Signature **Date**

Analyst Signature **Date**

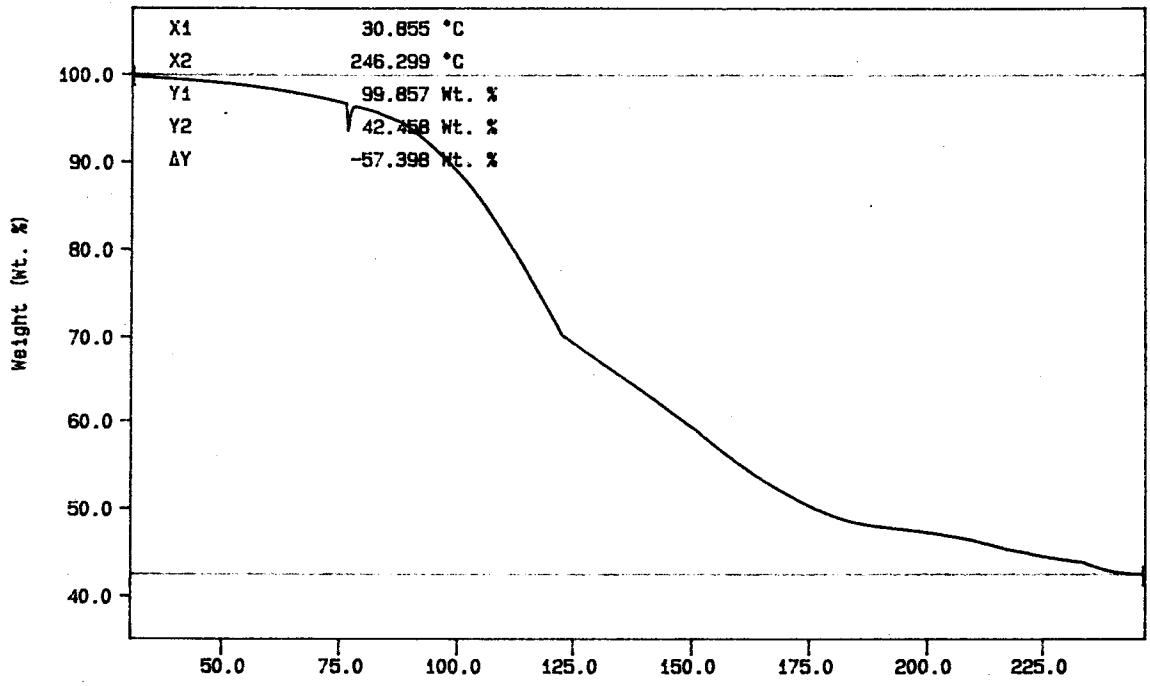
Other instrument was used 5/18/95 BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: ter050902 Tue May 9 21:30:30 1995
Sample Weight: 20.104 mg
42N8A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 227 TO 233.



227

N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

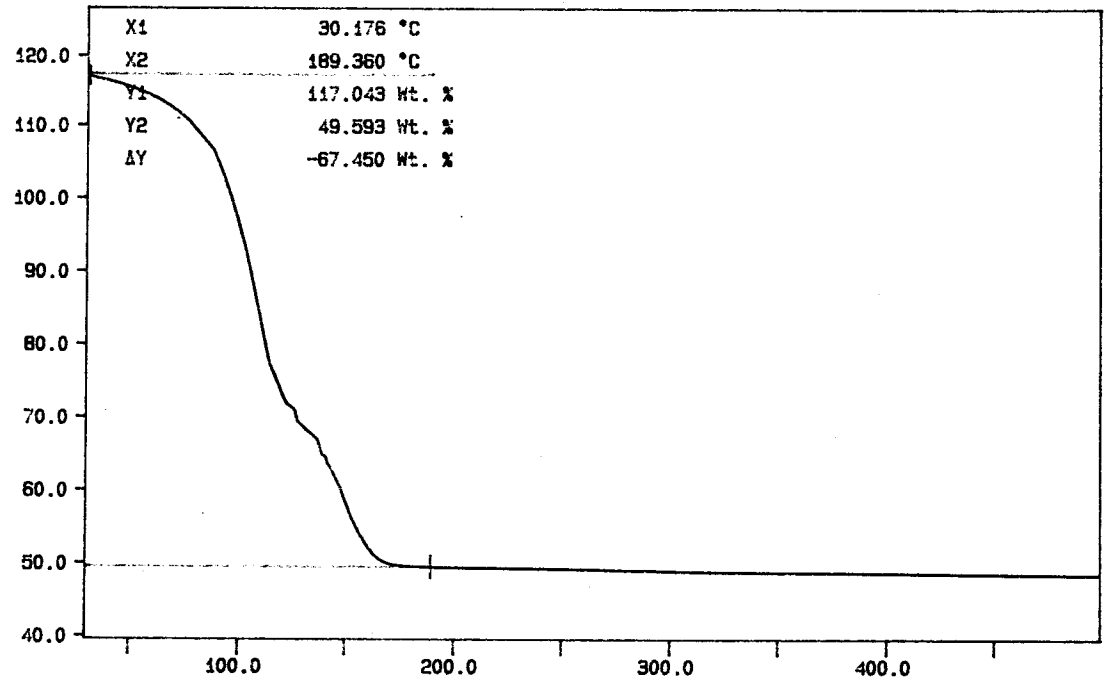
KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Tue May 9 21:33:38 1995

5-9-95

BEST AVAILABLE COPY

Curve 1: TGA
File info: sam050903 Wed May 10 00:43:19 1995
Sample Weight: 11.368 mg
S95T000783, 10C/min

BEST AVAILABLE COPY



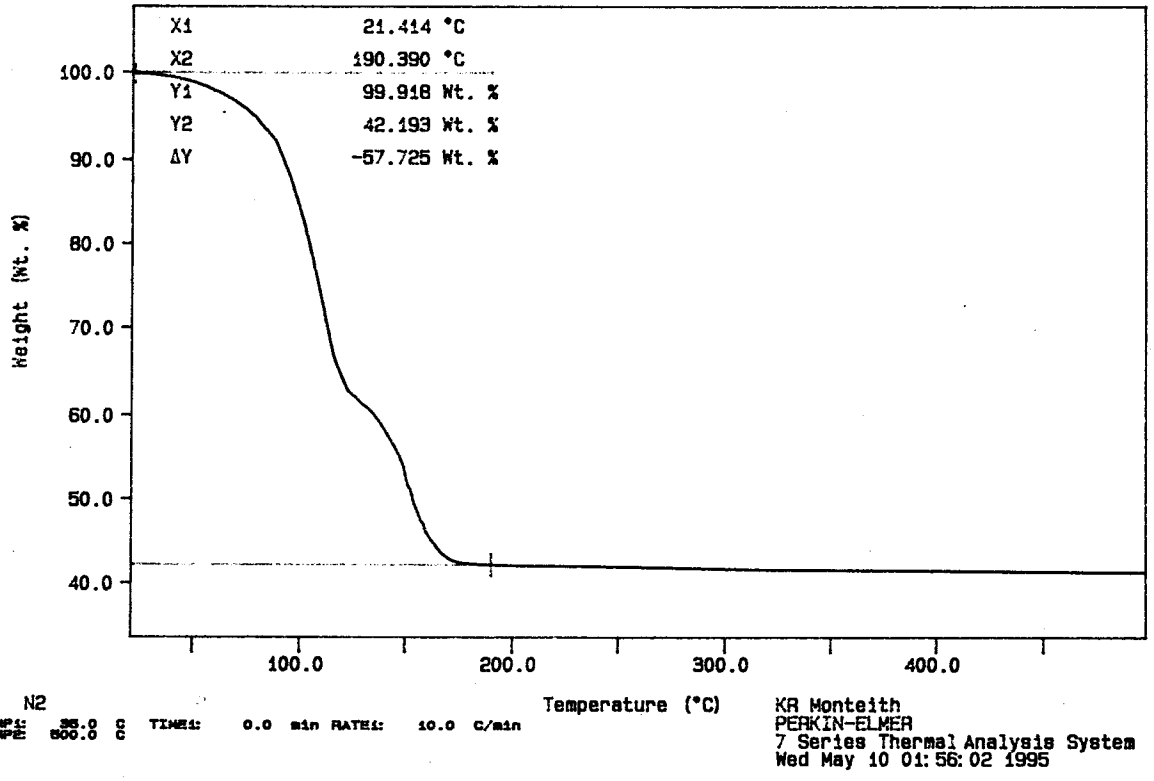
N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Wed May 10 00:44:06 1995

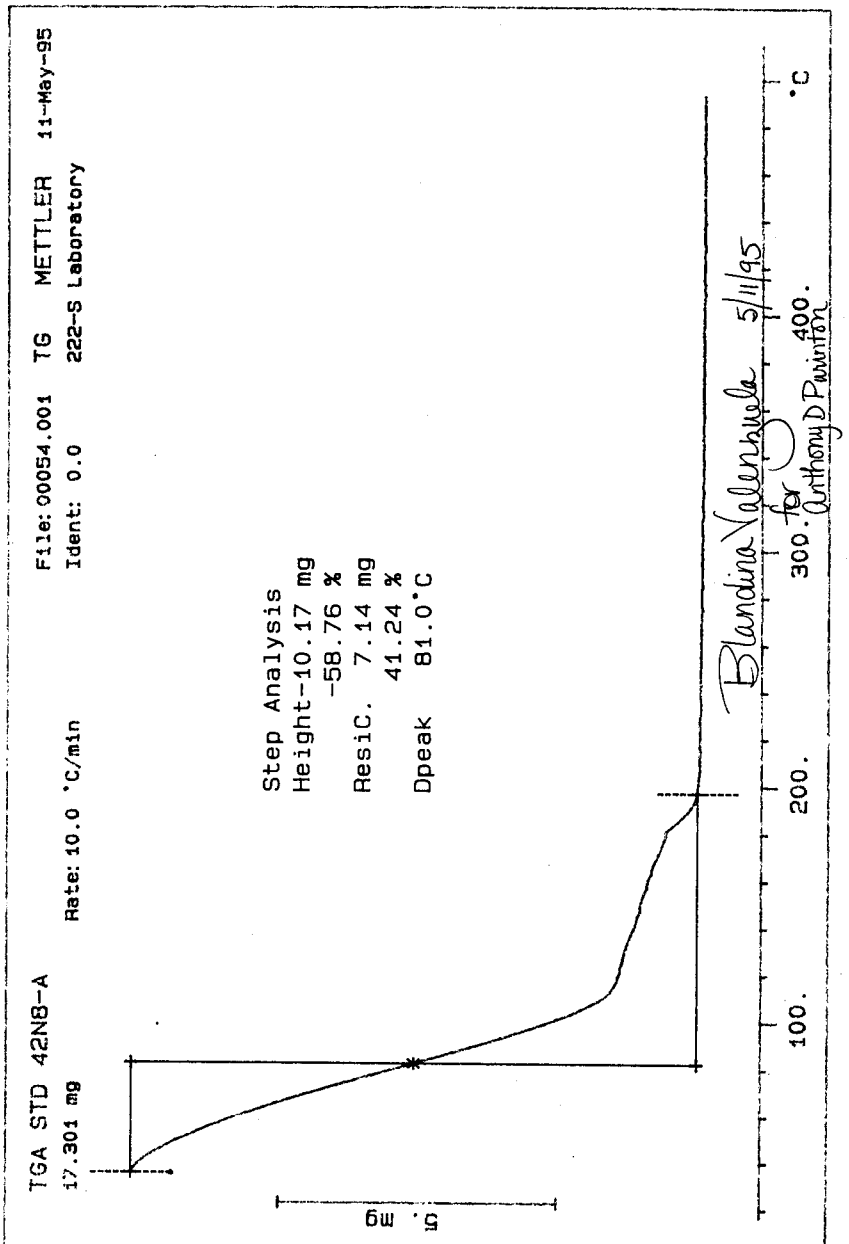
22S

Curve 1: TGA
File info: sam050904 Wed May 10 01:54:31 1995
Sample Weight: 14.379 mg
S95T000783(dup), 10C/min

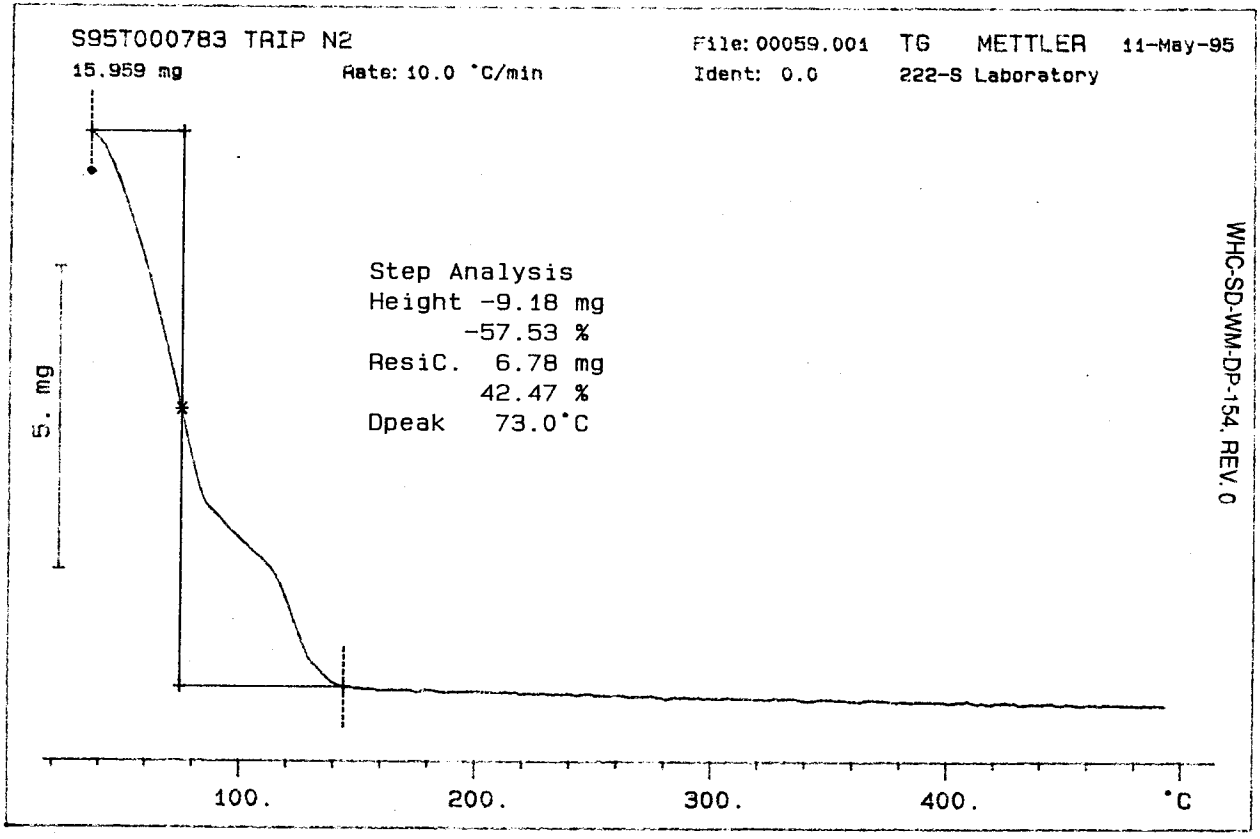
BEST AVAILABLE COPY



BEST AVAILABLE COPY

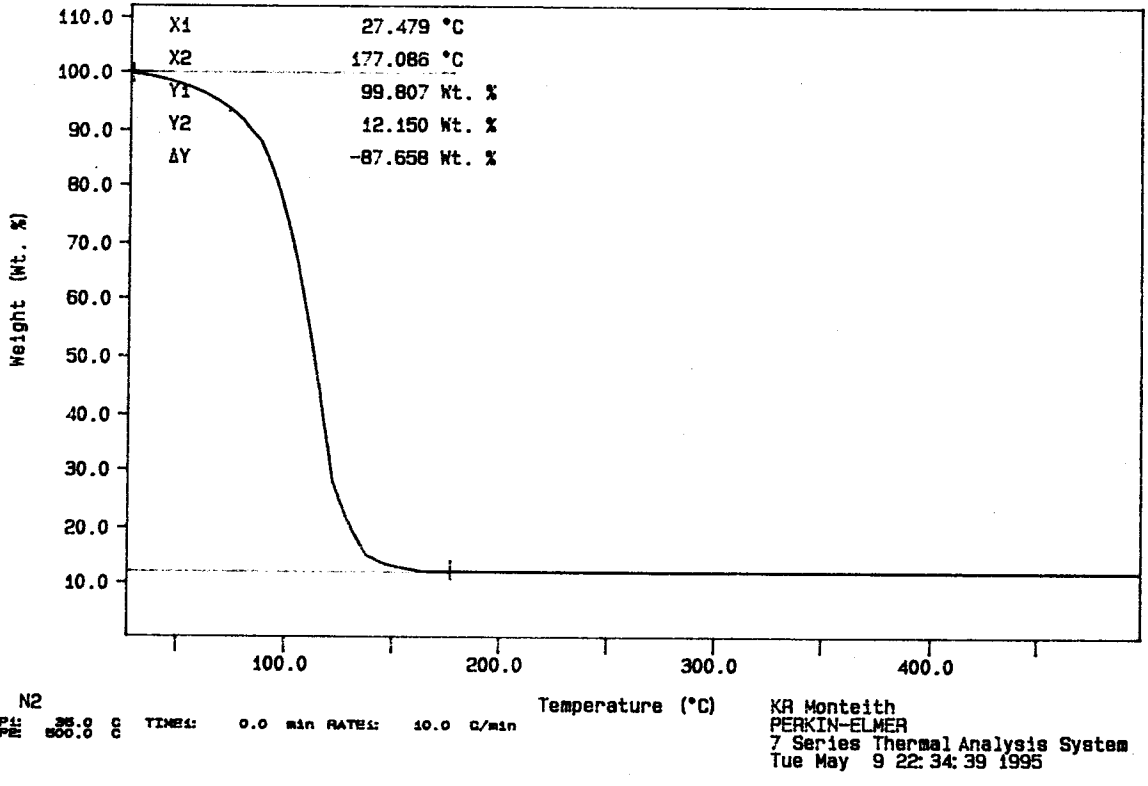


BEST AVAILABLE COPY



Curve 1: TGA
File info: sam050901 Tue May 9 22:33:36 1995
Sample Weight: 11.880 mg
S95T000853, 10C/min

BEST AVAILABLE COPY

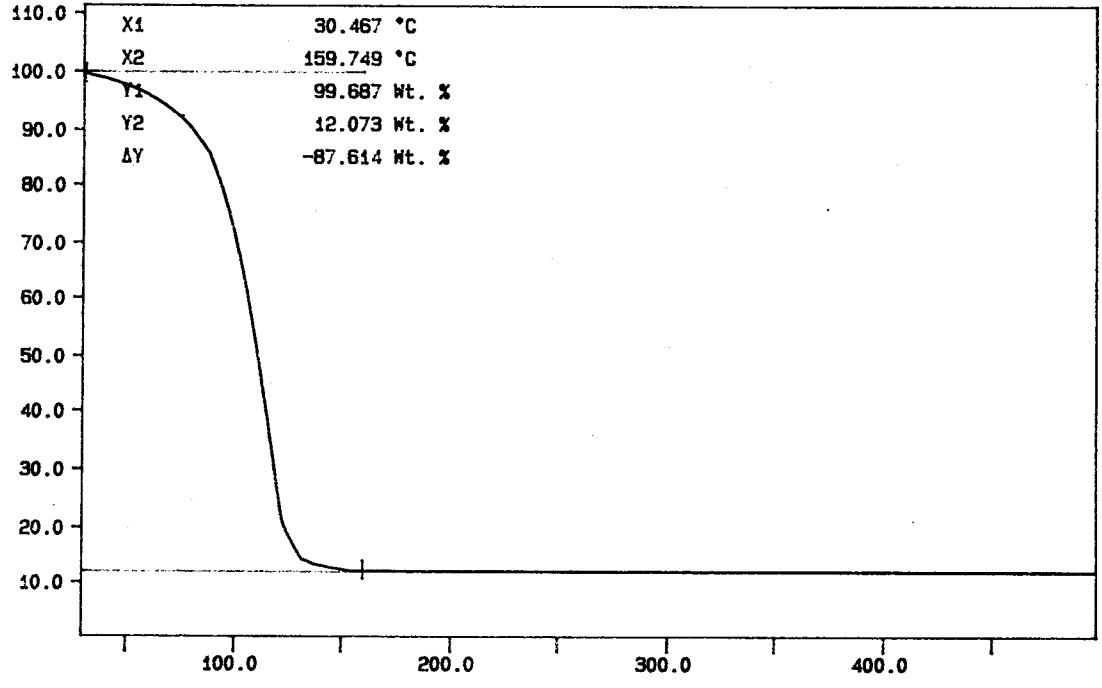


N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Tue May 9 22:34:39 1995

Curve 1: TGA
File info: sam050902 Tue May 9 23:38:00 1995
Sample Weight: 11.368 mg
S95T000853(dup), 10C/min

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

KR Monteith
PERKIN-ELMER
7 Series Thermal Analysis System
Tue May 9 23:41:07 1995

LABCORE Data Entry Template for Worklist# 1254

Analyst: ADP **Instrument:** TGA01 **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please BX-109 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	LIQUID	59.19 ~~59.3~~ 5/8/95 BDV	59.36 ~~59.39~~	1/5/96 CON/A	%
95000059	BX-109	2 SAMPLE	S95T000856	0		TGA-01	LIQUID	N/A	97.45		%
95000059	BX-109	3 DUP	S95T000856	0		TGA-01	LIQUID	97.45	99.76	N/A	%

Final page for worklist # 1254

Analyst Signature 5-8-95 Date

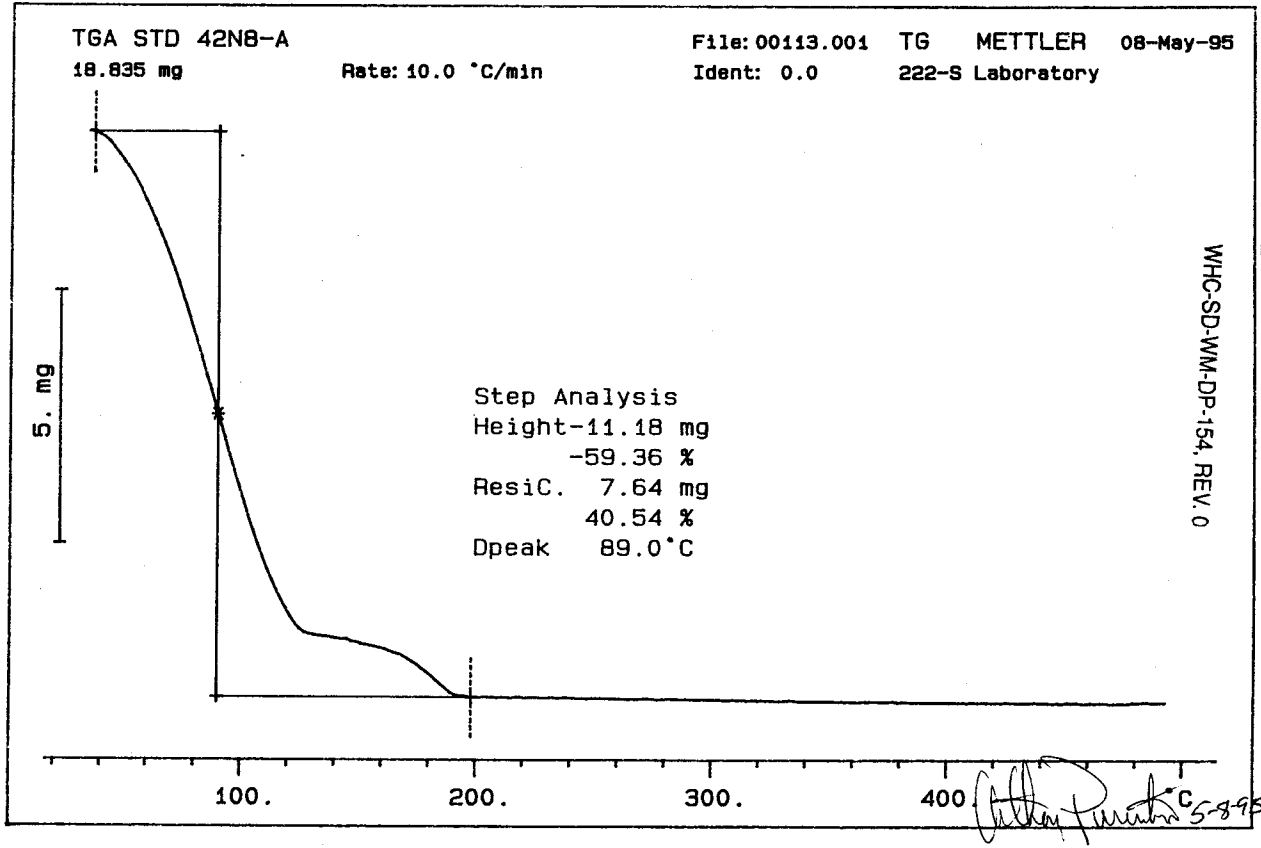
Analyst Signature 5-8-95 Date

Verified by Blandina Valenzuela 5/8/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 235 TO 237.



WHC-SD-WM-DP-154, REV.0
BEST AVAILABLE COPY

BEST AVAILABLE COPY

BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist# 1924

Analyst: RJ McCown **Instrument:** TGA0 1 **Book #** 65N584

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BX-109 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	39.85	N/A	%
95000057	BX-109	2 SAMPLE	S95T001325	0		TGA-01	SOLID	N/A	51.23		%
95000057	BX-109	3 DUP	S95T001325	0		TGA-01	SOLID	51.23	50.64	N/A	%

Final page for worklist # 1924

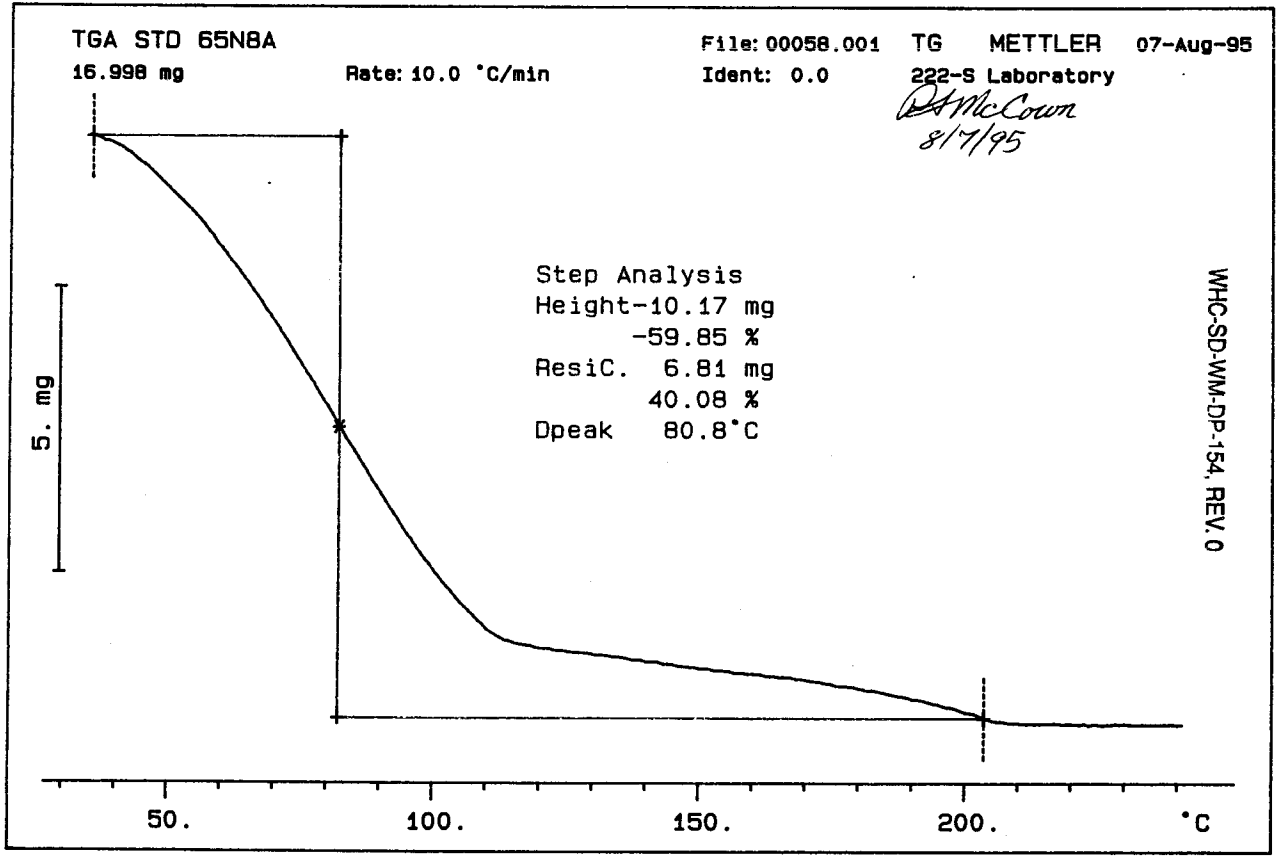
RJ McCown 8/7/95
Analyst Signature **Date**

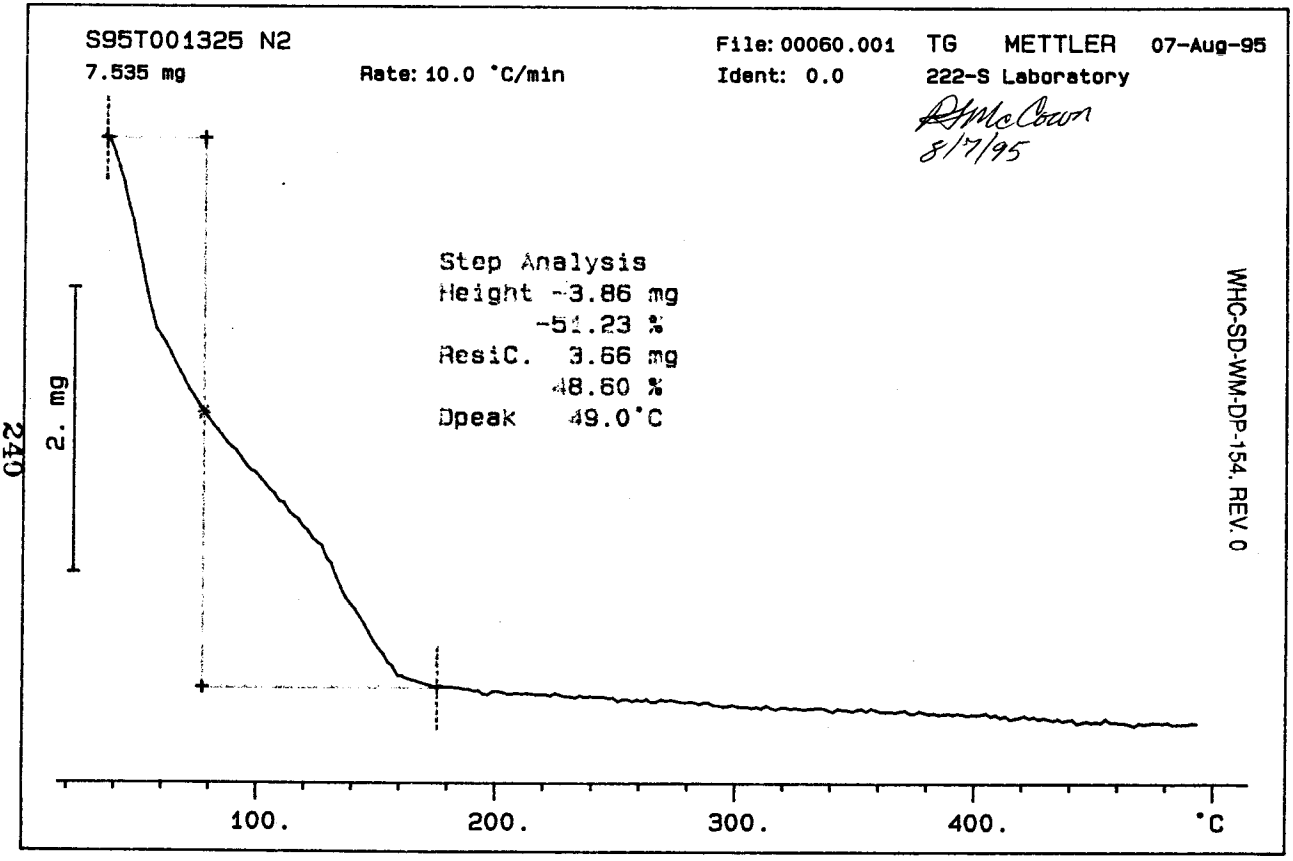
Analyst Signature 8-8-95 **Date**

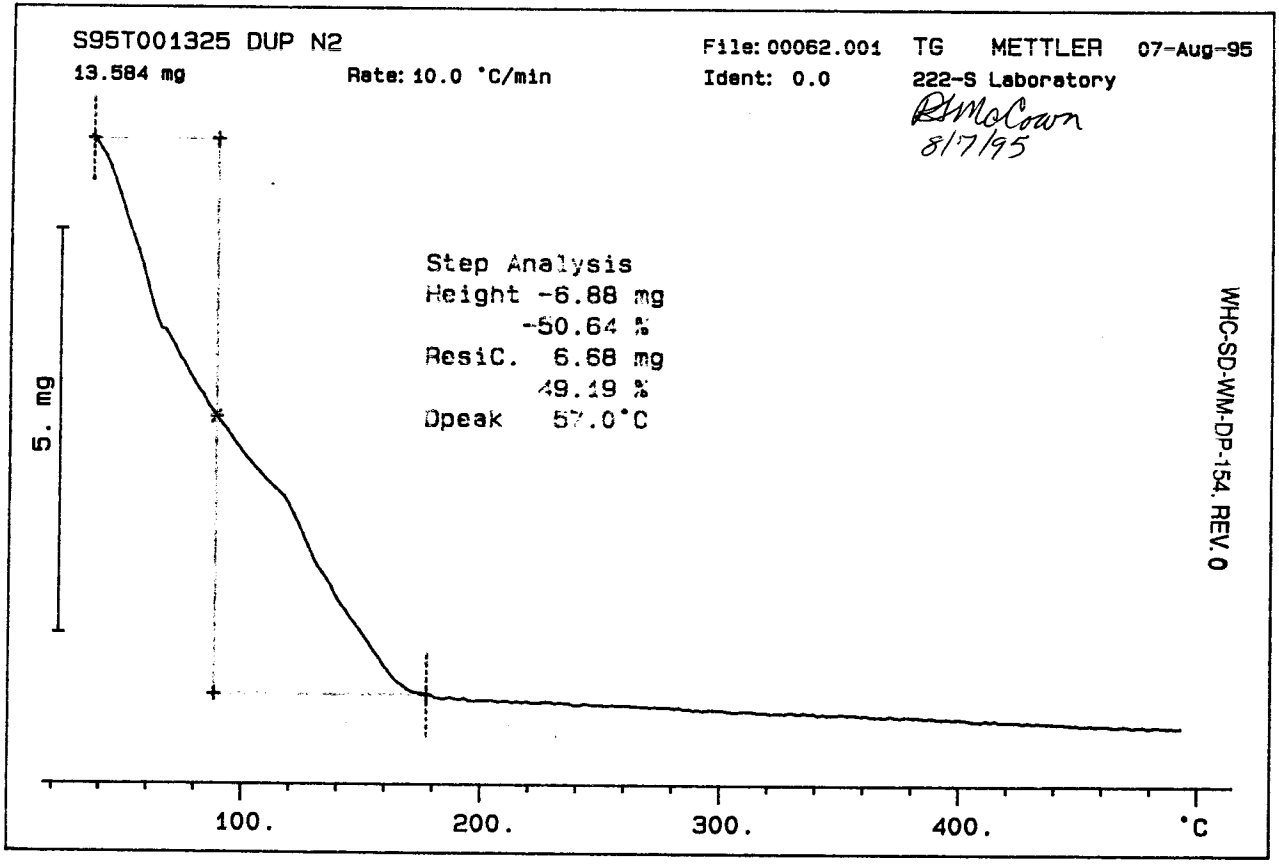
Verified by Blandina Valenzuela 8-9-95
~~8-8-95~~ 8-9-95 BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.


TGA STD 65N8A
16.998 mg
Rate: 10.0 °C/min
File: 00058.001
Ident: 0.0
TG METTLER 07-Aug-95
222-S Laboratory
D.A. McCown
8/7/95
Step Analysis
Height-10.17 mg
-59.85 %
ResiC. 6.81 mg
40.08 %
Dpeak 80.8°C
5. mg
50.
100.
150.
200.
°C
WHC-SD-WM-DP-154, REV.0


S95T001325 N2
7.535 mg
Rate: 10.0 °C/min
File: 00060.001
Ident: 0.0
TG METTLER 07-Aug-95
222-S Laboratory
D.J. McCown
8/7/95
Step Analysis
Height -3.86 mg
-51.23 %
ResiC. 3.66 mg
48.60 %
Dpeak 49.0°C
2. mg
240
100.
200.
300.
400.
°C
WHC-SD-WM-DP-154, REV.0


S95T001325 DUP N2
13.584 mg
Rate: 10.0 °C/min
File: 00062.001
Ident: 0.0
TG METTLER 07-Aug-95
222-S Laboratory
RJMcCown
8/7/95
Step Analysis
Height -6.88 mg
-50.64 %
ResiC. 6.68 mg
49.19 %
Dpeak 57.0°C
5. mg
100.
200.
300.
400.
°C
WHC-SD-WM-DP-154, REV.0

LABCORE Data Entry Template for Worklist# 2156

Analyst: RMcCown **Instrument:** TGA0 1 **Book #** G5N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BX-109 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.46	N/A	%
95000059	BX-109	2 SAMPLE	S95T001468	0		TGA-01	SOLID	N/A	21.44		%
95000059	BX-109	3 DUP	S95T001468	0		TGA-01	SOLID	21.44	27.28	N/A	%

Final page for worklist # 2156

RMcCown 9/3/95
Analyst Signature **Date**

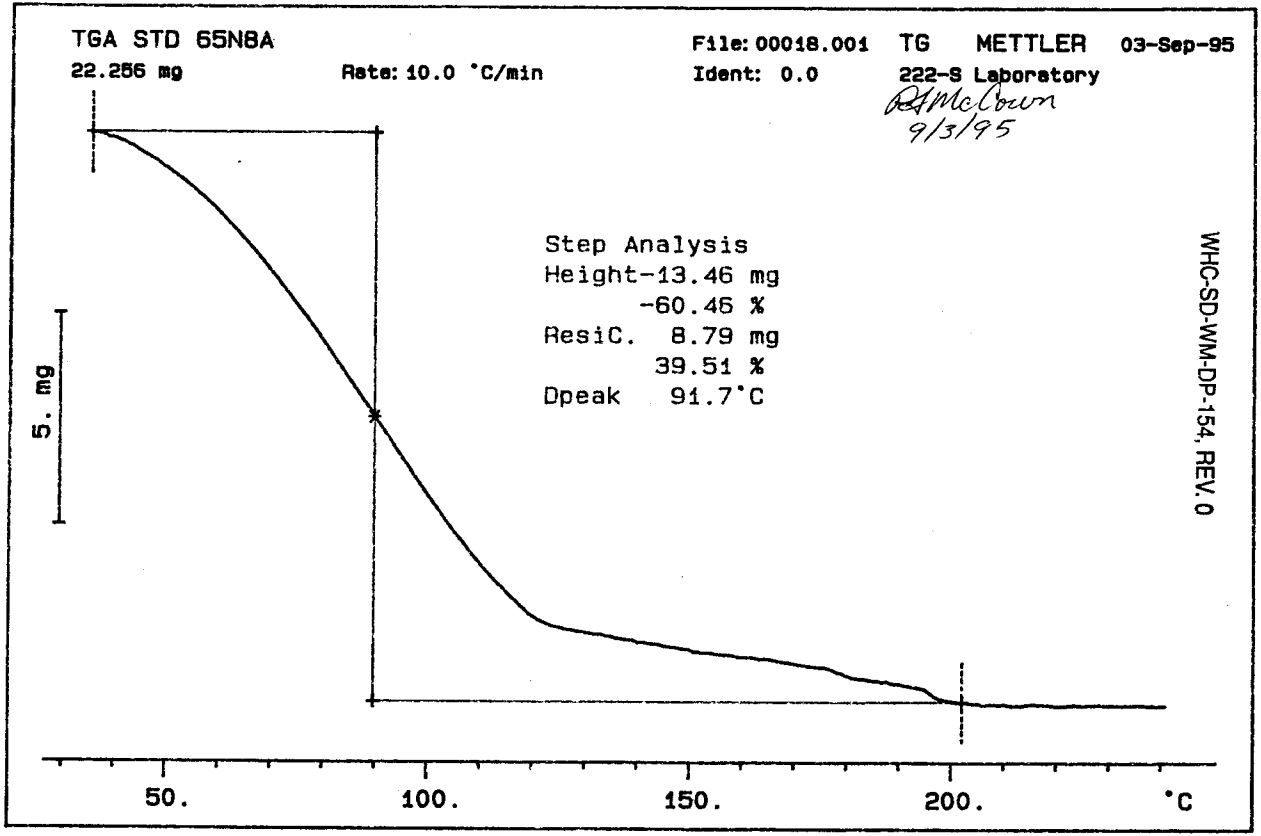
Analyst Signature 9-5-95 **Date**

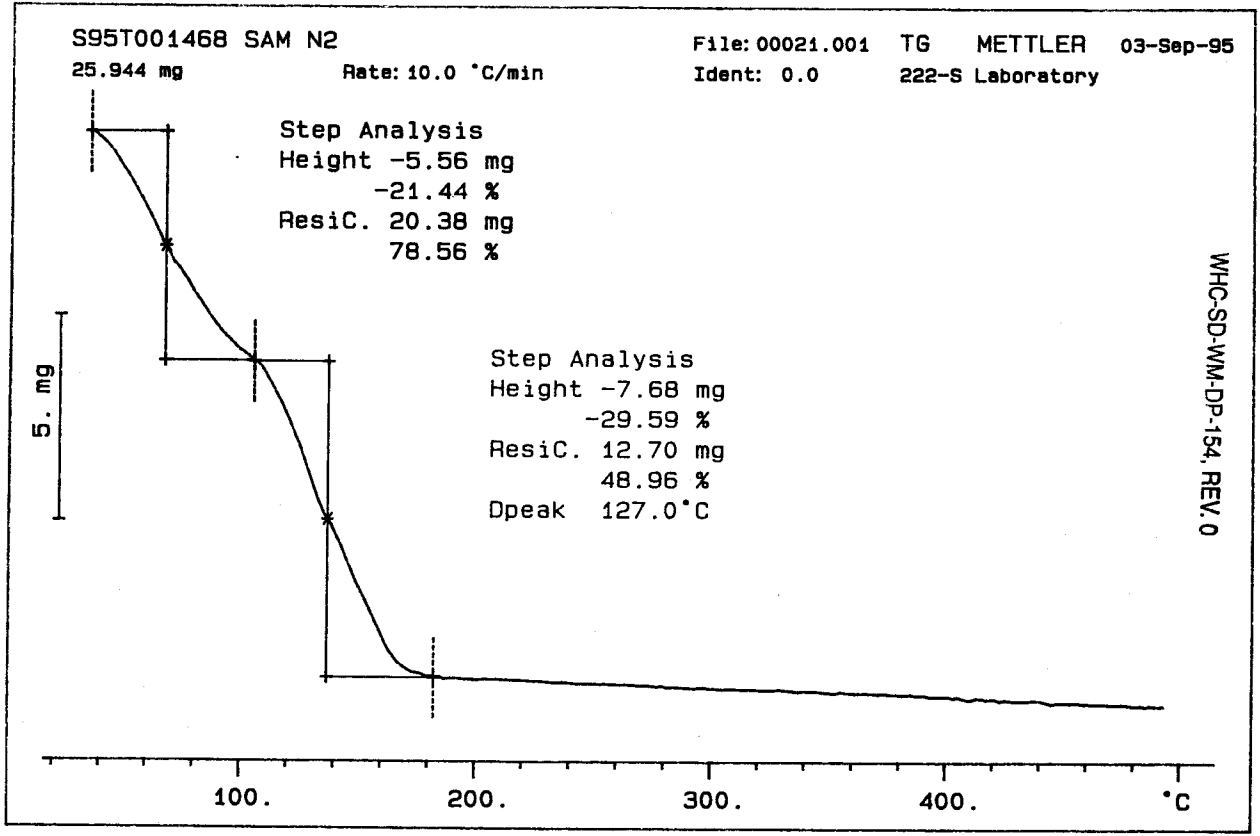
Verified 9/5/95. J. M. Tuyo

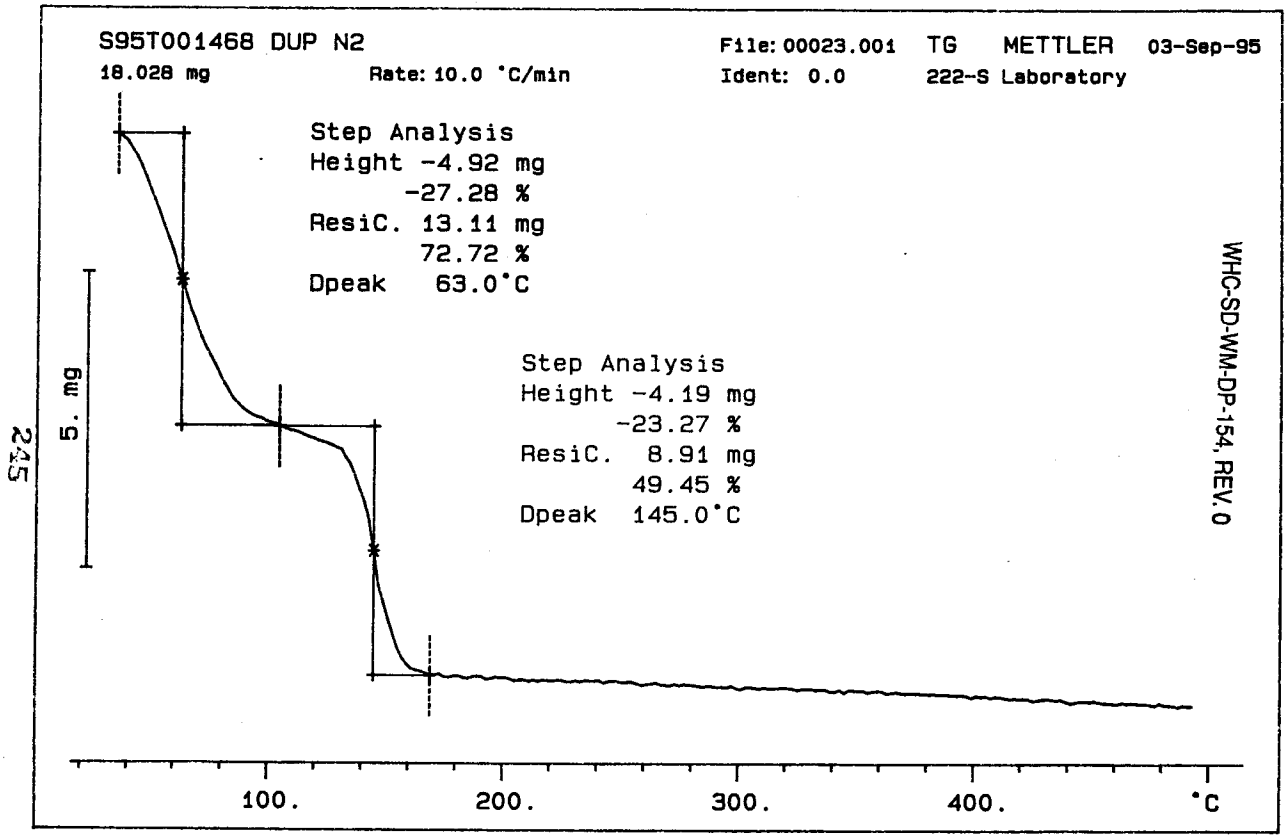
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 243 TO 245.




S95T001468 SAM N2
25.944 mg
Rate: 10.0 °C/min
File: 00021.001 TG METTLER 03-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height -5.56 mg
-21.44 %
ResiC. 20.38 mg
78.56 %
Step Analysis
Height -7.68 mg
-29.59 %
ResiC. 12.70 mg
48.96 %
Dpeak 127.0°C
5. mg
100.
200.
300.
400.
°C
WHC-SD-WM-DP-154, REV.0


S95T001468 DUP N2
18.028 mg
Rate: 10.0 °C/min
File: 00023.001 TG METTLER 03-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height -4.92 mg
-27.28 %
ResiC. 13.11 mg
72.72 %
Dpeak 63.0°C
Step Analysis
Height -4.19 mg
-23.27 %
ResiC. 8.91 mg
49.45 %
Dpeak 145.0°C
5. mg
2.45
100.
200.
300.
400.
°C
WHC-SD-WM-DP-154, REV.0

worklistrpt Version 2.1 05/15/95
01/09/96 15:42

LABCORE Data Entry Template for Worklist# 4692

Analyst: WGB **Instrument:** BA001 **Book #** 133N/16A

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: BX-109 RUSH (Do not run in ~~replicate~~ replicate) RDL 3/4/96

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				SPG-01	LIQUID	1.398	~~1.33~~ 1.329 RWS 1/14/96	N/A	Sp.G.
95000059	BX-109	2 SAMPLE	S95T000783	0		SPG-01	LIQUID	N/A	~~1.26~~ 1.265 RWS 1/14/96	0.001	Sp.G.
95000059	BX-109	3 DUP	S95T000783	0		SPG-01	LIQUID	1.265	1.272	N/A	Sp.G.
95000059	BX-109	4 SAMPLE	S95T000853	0		SPG-01	LIQUID	N/A	~~1.04~~ 1039 RWS 1/14/96	0.001	Sp.G.
95000059	BX-109	5 DUP	S95T000853	0		SPG-01	LIQUID	RWS 1/14/96 ~~1.04~~ 1039	1.037	N/A	Sp.G.

Final page for worklist # 4692

Wayne M Bushnell 1-9-96
Analyst Signature **Date**

D D Mahler 1-11-96
Analyst Signature **Date**

Reviewed RW Schmaltz 1/14/96

Data Entry Comments:
All Samples & Std. used ~~150~~ 1501? ml Calibrated micropipette
DM - 1-11-96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SPECIFIC GRAVITY: LA-510-112 (C-3)

WORKLIST #	ANALYST SIGNATURE	ANALYSIS DATE	ANALYSIS TIME	INSTRUMENT CODE
4692	[signature]	1-9-96	14:00	

☐ SAMPLE ☒ STANDARD ☐ DUPLICATE

SAMPLE # = STD # = 133N16-A

	REPLICATE
TARE WEIGHT (g) 1.9238	1.828
GROSS WEIGHT (g) 2.125	2.026
VOL. of SOLUTION (mL) 0.15017	0.15017

WB ☒ SAMPLE ☐ STANDARD ☒ DUPLICATE

SAMPLE # = 595T000853 STD # =

	REPLICATE
TARE WEIGHT (g) 1.853	
GROSS WEIGHT (g) 2.008	
VOL. of SOLUTION (mL) 0.15017	

☒ SAMPLE ☐ STANDARD ☐ DUPLICATE

SAMPLE # = 595T000783 STD # =

	REPLICATE
TARE WEIGHT (g) 1.892	
GROSS WEIGHT (g) 2.082	
VOL. of SOLUTION (mL) ~~0.150X~~ 0.15017	

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE

SAMPLE # = STD # =

	REPLICATE
TARE WEIGHT (g)	
GROSS WEIGHT (g)	
VOL. of SOLUTION (mL)	

WB ☒ SAMPLE ☐ STANDARD ☒ DUPLICATE

241 SAMPLE # = 595T000783 STD # =

	REPLICATE
TARE WEIGHT (g) 1.838	
GROSS WEIGHT (g) 2.029	
VOL. of SOLUTION (mL) 0.15017	

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE

SAMPLE # = STD # =

	REPLICATE
TARE WEIGHT (g)	
GROSS WEIGHT (g)	
VOL. of SOLUTION (mL)	

☒ SAMPLE ☐ STANDARD ☐ DUPLICATE

SAMPLE # = 595T000853 STD # =

	REPLICATE
TARE WEIGHT (g) 1.809	
GROSS WEIGHT (g) 1.965	
VOL. of SOLUTION (mL) 0.15017	

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE

SAMPLE # = STD # =

	REPLICATE
TARE WEIGHT (g)	
GROSS WEIGHT (g)	
VOL. of SOLUTION (mL)	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.1250	2.0260
Work List	Tare Weight (W1)	1.9238	1.8280
4692	Weight of Solution (W2-W1)	0.2012	0.198
Test Code	Volume of Solution µL	150.1700	150.1700
SPG-01	Specific Gravity	1.3398	1.3185
Matrix	Specific Gravity (Average)	1.3292	
LIQUID			
Sample #			
133N16A			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
W BUZHARDT	Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]		
Date			
01/09/96	v RESULT v		
Time	Specific Gravity Average =	1.329	
02:00 PM			

Data Entry by: Frank Conlin Date: 01/09/96

Approved by: R W Schroeder Date: 1/14/96

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0820	
Work List	Tare Weight (W1)	1.8920	
4692	Weight of Solution (W2-W1)	0.19	0
Test Code	Volume of Solution µL	150.1700	
SPG-01	Specific Gravity	1.2652	NA
Matrix			
LIQUID			
Sample #			
S95T000783			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
W BUZHARDT	Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]		
Date			
01/09/96	v RESULT v		
Time	Specific Gravity =	1.265	
02:00 PM			

Data Entry by:	Linda Coulter	Date:	01/09/96
Approved by:	R.W. Schrader	Date:	1/14/96

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		DUPLICATE	REPLICATE
DUPLICATE	Gross Weight (W2)	2.0290	
Work List	Tare Weight (W1)	1.8380	
4692	Weight of Solution (W2-W1)	0.191	0
Test Code	Volume of Solution µL	150.1700	
SPG-01	Specific Gravity	1.2719	NA
Matrix			
LIQUID			
Sample #			
S95T000783			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
W BUZHARDT	Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]		
Date			
01/09/96	v RESULT v		
Time	Specific Gravity =	1.272	
02:00 PM			

Data Entry by:	Linda Conlin	Date:	01/09/96
Approved by:	R.M. Schrader	Date:	1/14/96

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	1.9650	
Work List	Tare Weight (W1)	1.8090	
4692	Weight of Solution (W2-W1)	0.156	0
Test Code	Volume of Solution µL	150.1700	
SPG-01	Specific Gravity	1.0388	NA
Matrix			
LIQUID			
Sample #			
S95T000853			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
W BUZHARDT	Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]		
Date			
01/09/96	v RESULT v		
Time	Specific Gravity =	1.039	
02:00 PM			

Data Entry by:	Freda Conlin	Date:	01/09/96
Approved by:	R.W. Schreckhise	Date:	1/14/96

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type
DUPLICATE
Work List
4692
Test Code
SPG-01
Matrix
LIQUID
Sample #
S95T000853
Instrument Code
BA001
Analyst
W BUZHARDT
Date
01/09/96
Time
02:00 PM

	DUPLICATE	REPLICATE
Gross Weight (W2)	2.0080	
Tare Weight (W1)	1.8530	
Weight of Solution (W2-W1)	0.155	0
Volume of Solution µL	150.1700	
Specific Gravity	1.0322	NA

Gross Weight (W2) = Wt. of vial + cap + cotton + solution
Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

Specific Gravity =	1.032

Data Entry by:	Linda Conlin	Date:	01/09/96
Approved by:	RW Goodwin	Date:	1/14/96

Form 510112L1 Rev. 1.1

LABCORE Data Entry Template for Worklist# 1137

Analyst: EHC **Instrument:** IC01 _____ **Book #** 82N98

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: Bx-109 HHF,0.3 M LiBr. Only Bromide wanted. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK			@IC-01	F-02	LIQUID	N/A	N/A	N/A	ug/mL
		1	BLNK			@IC-01	CL-02	LIQUID	N/A	N/A	N/A	ug/mL
		1	BLNK			@IC-01	NO2-02	LIQUID	N/A	N/A	N/A	ug/mL
		1	BLNK			@IC-01	BR-02	LIQUID	1	<.8	N/A	ug/mL
		1	BLNK			@IC-01	NO3-02	LIQUID	N/A	N/A	N/A	ug/mL
		1	BLNK			@IC-01	PO4-02	LIQUID	N/A	N/A	N/A	ug/mL
		1	BLNK			@IC-01	SO4-02	LIQUID	N/A	N/A	N/A	ug/mL
		1	BLNK			@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	F-02	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	CL-02	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	NO2-02	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	BR-02	LIQUID	605	599	N/A	ug/mL
		2	STD			@IC-01	NO3-02	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	PO4-02	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	SO4-02	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	3	SAMPLE	S95T000816	0	@IC-01	BR-02	LIQUID	N/A	2.34e4	1.70e3	ug/mL
95000059	BX-109	4	DUP	S95T000816	0	@IC-01	F-02	LIQUID	N/A	N/A	N/A	ug/mL

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1137

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	4 DUP	S95T000816	0		@IC-01	CL-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000816	0		@IC-01	NO2-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000816	0		@IC-01	BR-02	LIQUID	2.34e4	2.38e4	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000816	0		@IC-01	NO3-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000816	0		@IC-01	PO4-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000816	0		@IC-01	SO4-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000816	0		@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	F-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	CL-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	NO2-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	BR-02	LIQUID	100	102.5	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	NO3-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	PO4-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	SO4-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000816	0		@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL

Final page for worklist # 1137

Jan Fuyi for Ed Colvin 5/15/95
Analyst Signature Date
See attached original for original Signature

Analyst Signature Date

Data Entry Comments: Had to redo the worklist as @IC-01 not Br-02 to enter the data. JM Fuyi

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1137

Analyst: EE **Instrument:** IC01 **Book #** 82N9-13

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: Bx-109 HHF,0.3 M LiBr. Only Bromide wanted. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				BR-02	LIQUID	1	< .8	N/A	ug/mL
		2	STD				BR-02	LIQUID	605	599	N/A	ug/mL
95000059	BX-109	3	SAMPLE	S95T000816	0		BR-02	LIQUID	N/A	2.34E4		ug/mL
95000059	BX-109	4	DUP	S95T000816	0		BR-02	LIQUID	2.34E04	2.38E04	N/A	ug/mL
95000059	BX-109	5	SPK	S95T000816	0		BR-02	LIQUID	100	102.5	N/A	ug/mL

Final page for worklist # 1137

E N Cobb 5-11-95
Analyst Signature **Date**

Entered + Verified 5/15/95
Jann M. Faye

Analyst Signature **Date**

Data Entry Comments:

CMCS 82N9-B ,100mL - 10mL

SPIKE 82N9-B ,100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000816		
TEST CODE:	BR-02	ANALYST:	E. H. Colvin
INSTRUMENT:	IC01	ANALYSIS DATE:	05/11/95
WORK LIST #:	1137	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	DIRECT

	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
STD							99.0%	
S95T000816	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	2.34E+04	<0.00
S95T000816	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	2.38E+04	<0.00
Duplicate 1 RPD	N/A	N/A	N/A	N/A	N/A	N/A	1.7%	N/A
	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Duplicate 2 RPD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S95T000816							102.5%	

NARRATIVE: Analyst Comments:

Chemist Comments:

Form Completed By: [signature] Date: 5-14-95

Chemist Approval: [signature] Date: 1/3/96

LAB LEADER INFO	
Method:	LA-833-106
Matrix:	LIQUID
Test Code:	BR-02
Work List #:	1137
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/mL
Spike Book Number:	82N9B
Spike Sample #:	1
Prepared By:	Gary Hammitt
Prepared Date:	05/14/95
Chemist:	Jann Frye
Analyst:	E. H. Colvin
Analysis Date:	05/11/95
Time Complete:	08:40 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	DIRECT
Sample Point:	BX-109
Sample Type	
STANDARD	STD
SAMPLE 1	S95T000816
DUPLICATE 1	S95T000816
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000816
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)							<.8	
Standard Data (µg/mL)							599	
Sample 1 Data (µg/mL)							2.34E+04	
Sample 1 Dilution Factor							2121	
Sample 1 Prep DF	1	1	1	1	1	1	1	1
Duplicate 1 Data (µg/mL)							2.38E+04	
Duplicate 1 Dilution Factor							2121	
Duplicate 1 Prep DF	1	1	1	1	1	1	1	1
Sample 2 Data (µg/mL)								
Sample 2 Dilution Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Dilution Factor								
Duplicate 2 Prep DF								
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)							3.59E+04	
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)							1.00E-01	
Total Volume (mL)							10.50	
Std. Conc. (µg/mL)							605	
Detection Limit	0.100	0.200	1.000	1.000	1.000	1.000	1.000	1.000

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery							99.0%	
Sample 1 in µg/mL	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	2.34E+04	<0.00
Duplicate 1 in µg/mL	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	2.38E+04	<0.00
Duplicate 1 RPD	N/A	N/A	N/A	N/A	N/A	N/A	1.7%	N/A
Sample 2 in µg/mL	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Duplicate 2 in µg/mL	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Duplicate 2 RPD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Spike % Recovery							102.6%	

Data Entry by: Gary Hammitt Date: 05/14/95
Approved by: Jann Frye Date: 1/3/96

Sample Name: BLANK
Data File : C:\DX\DATA\95051141.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst : Column:

Date: 05/11/1995 07:41:16

WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

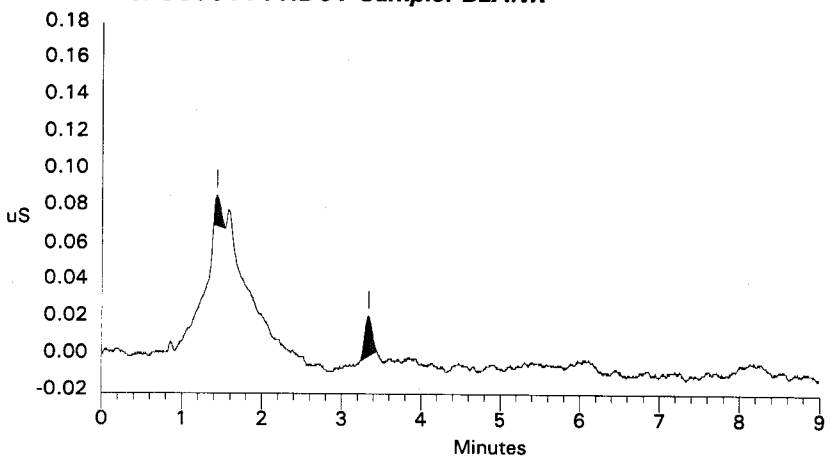
Jana Jaye
for Ed Olson 3/4/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95051141.D01 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 259 TO 262

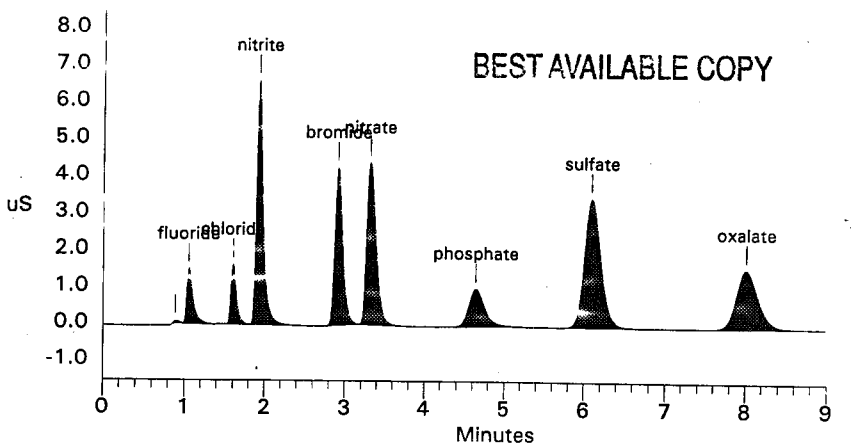
Sample Name: 82N9-B STD Date: 05/11/1995 07:51:13
Data File : C:\DX\DATA\95051141.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2 Detector:CDM-1
Analyst : [signature] Column: 5/11/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	71	342	2	
2	1.05	fluoride	51.519	1482	8095	2	5.00
3	1.60	chloride	73.417	1614	7922	1	5.26
4	1.92	nitrite	504.781	6605	38106	1	0.52
5	2.91	bromide	598.963	4265	29220	1	0.34
6	3.31	nitrate	577.898	4388	36296	1	0.30
7	4.64	phosphate	506.714	1026	14172	1	2.20
8	6.09	sulfate	600.916	3479	48808	1	3.22
9	8.01	oxalate	504.716	1598	29735	1	2.69
		Totals	3418.924	24529	212696		

File: 95051141.D02 Sample: 82N9-B STD



Sample Name: S95T000816
Data File : C:\DX\DATA\95051141.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column:

Date: 05/11/1995 08:15:18

WHC-SD-WM-DP-154, REV. 0

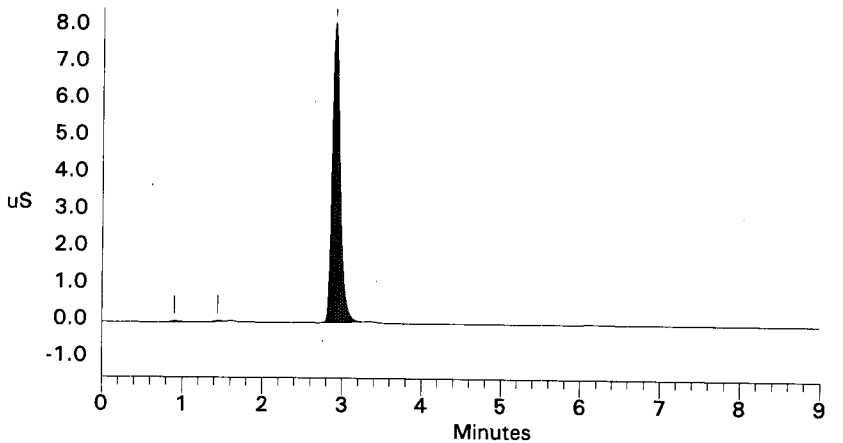
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	2121	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	2.90	bromide	23425.045	8108	56324	1	0.00
		Totals	23425.045	8108	56324		

File: 95051141.D04 Sample: S95T000816



Sample Name: S95T000816 DUP
Data File : C:\DX\DATA\95051141.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst : Column:

Date: 05/11/1995 08:29:20

WHC-SD-WM-DP-154, REV. 0

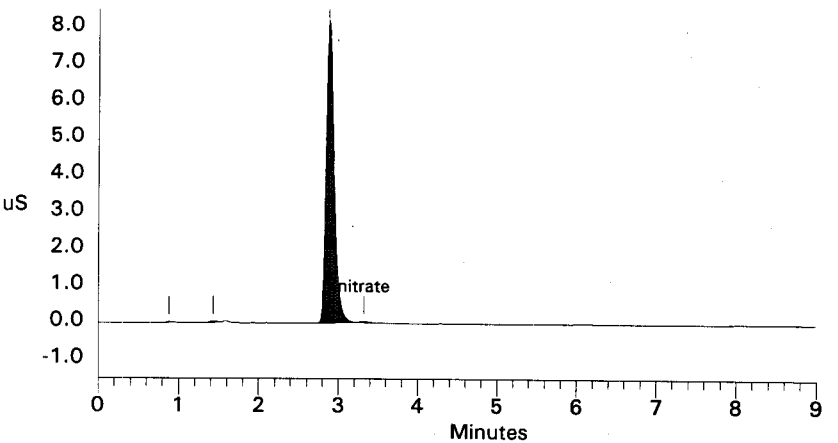
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	2121	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	2.87	bromide	23758.002	8070	57171	1	-1.03
4	3.32	nitrate	774.297	33	220	1	0.61
		Totals	24532.299	8103	57391		

File: 95051141.D05 Sample: S95T000816 DUP



Sample Name: S95T000816 + SPIKE
Data File : C:\DX\DATA\95051141.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst : PM Cohn Column:

Date: 05/11/1995 08:40:01

WHC-SD-WM-DP-154, REV. 0

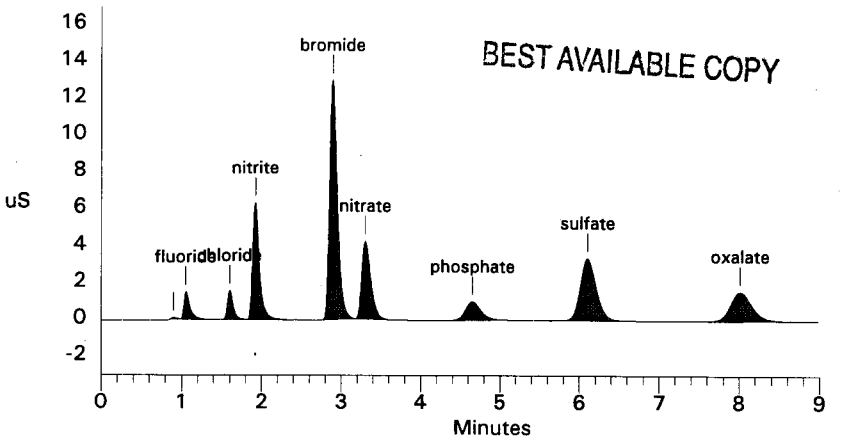
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	2121	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	85	395	2	
2	1.05	fluoride	1064.118	1467	7957	2	5.00
3	1.60	chloride	1549.021	1565	7960	1	5.26
4	1.92	nitrite	10527.755	6336	37825	1	0.52
5	2.89	bromide	35927.080	12970	88773	1	-0.34
6	3.30	nitrate	11311.277	4208	33649	1	0.00
7	4.65	phosphate	10289.422	1003	13688	1	2.42
8	6.10	sulfate	12163.942	3372	46994	1	3.39
9	8.01	oxalate	10321.773	1569	28933	1	2.69
		Totals	93154.388	32575	266174		

File: 95051141.D06 Sample: S95T000816 + SPIKE



LABCORE Data Entry Template for Worklist# 1625

Analyst: EC **Instrument:** IC01 **Book #** 86119-C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 IC. JMF

EC attached calcs 1625 7/11/95

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				@IC-01 F-02	SOLID		< .062	N/A	ug/g
		1	BLNK-PREP				@IC-01 CL-02	SOLID		< .083	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO2-02	SOLID		< .532	N/A	ug/g
		1	BLNK-PREP				@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO3-02	SOLID		< .703	N/A	ug/g
		1	BLNK-PREP				@IC-01 PO4-02	SOLID		< .572	N/A	ug/g
		1	BLNK-PREP				@IC-01 SO4-02	SOLID		< .697	N/A	ug/g
		1	BLNK-PREP				@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01 F-02	SOLID		57.5	N/A	ug/g
		2	STD				@IC-01 CL-02	SOLID		81.3	N/A	ug/g
		2	STD				@IC-01 NO2-02	SOLID		535.1	N/A	ug/g
		2	STD				@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01 NO3-02	SOLID		602.1	N/A	ug/g
		2	STD				@IC-01 PO4-02	SOLID		502.1	N/A	ug/g
		2	STD				@IC-01 SO4-02	SOLID		607	N/A	ug/g
		2	STD				@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000976	0	W	@IC-01 F-02	SOLID	N/A			ug/g
95000057	BX-109	3	SAMPLE	S95T000976	0	W	@IC-01 CL-02	SOLID	N/A			ug/g

Data Entry Comments:

S95T000976 5.1890g/L Dup 5.3490g/L

977 6.6310g/L 6.1370g/L

980 5.6310g/L 5.0440g/L

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Sample S95T000976 run on worklist# 1764. RDL 3/5/96.

LABCORE Data Entry Template for Worklist# 1625

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 NO2-02	SOLID	N/A			ug/g
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 NO3-02	SOLID	N/A			ug/g
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 PO4-02	SOLID	N/A			ug/g
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 SO4-02	SOLID	N/A			ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 F-02	SOLID			N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 CL-02	SOLID			N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 NO2-02	SOLID			N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 NO3-02	SOLID			N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 PO4-02	SOLID			N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 SO4-02	SOLID			N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 CL-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 F-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 NO2-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 NO3-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 PO4-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 SO4-02	SOLID			N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	6 SAMPLE	S95T000977	0	W	@IC-01 F-02	SOLID	N/A			ug/g

Data Entry Comments:

LMCS 86N9-C .100mL -10mL

SPIKE 86N9-C .100 mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1625

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6 SAMPLE	S95T000977	0	W	@IC-01	CL-02	SOLID	N/A			ug/g
95000057	BX-109	6 SAMPLE	S95T000977	0	W	@IC-01	NO2-02	SOLID	N/A			ug/g
95000057	BX-109	6 SAMPLE	S95T000977	0	W	@IC-01	NO3-02	SOLID	N/A			ug/g
95000057	BX-109	6 SAMPLE	S95T000977	0	W	@IC-01	PO4-02	SOLID	N/A			ug/g
95000057	BX-109	6 SAMPLE	S95T000977	0	W	@IC-01	SO4-02	SOLID	N/A			ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	F-02	SOLID			N/A	ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	CL-02	SOLID			N/A	ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	NO2-02	SOLID			N/A	ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	NO3-02	SOLID			N/A	ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	PO4-02	SOLID			N/A	ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	SO4-02	SOLID			N/A	ug/g
95000057	BX-109	7 DUP	S95T000977	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	CL-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	F-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	NO2-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	NO3-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	PO4-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	SO4-02	SOLID			N/A	ug/g
95000057	BX-109	8 SPK	S95T000977	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	9 SAMPLE	S95T000980	0	W	@IC-01	F-02	SOLID	N/A			ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1625

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	9	SAMPLE	S95T000980	0	W	@IC-01	CL-02	SOLID	N/A			ug/g
95000057	BX-109	9	SAMPLE	S95T000980	0	W	@IC-01	NO2-02	SOLID	N/A			ug/g
95000057	BX-109	9	SAMPLE	S95T000980	0	W	@IC-01	NO3-02	SOLID	N/A			ug/g
95000057	BX-109	9	SAMPLE	S95T000980	0	W	@IC-01	PO4-02	SOLID	N/A			ug/g
95000057	BX-109	9	SAMPLE	S95T000980	0	W	@IC-01	SO4-02	SOLID	N/A			ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	F-02	SOLID			N/A	ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	CL-02	SOLID			N/A	ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	NO2-02	SOLID			N/A	ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	NO3-02	SOLID			N/A	ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	PO4-02	SOLID			N/A	ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	SO4-02	SOLID			N/A	ug/g
95000057	BX-109	10	DUP	S95T000980	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	CL-02	SOLID			N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	F-02	SOLID			N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	NO2-02	SOLID			N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	NO3-02	SOLID			N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	PO4-02	SOLID			N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	SO4-02	SOLID			N/A	ug/g
95000057	BX-109	11	SPK	S95T000980	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1625

GROUP	PROJECT	S TYPE	SAMPLE#	R A -------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 1625

P.N. Cohn 6-21-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1625

Analyst: EHC **Instrument:** IC01 IC01 **Book #** 86N9C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 IC. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				@IC-01 F-02	SOLID		<.062	N/A	ug/g
		1 BLNK-PREP				@IC-01 CL-02	SOLID		<.083	N/A	ug/g
		1 BLNK-PREP				@IC-01 NO2-02	SOLID		<.532	N/A	ug/g
		1 BLNK-PREP				@IC-01 BR-02	SOLID		N/A	N/A	ug/g
		1 BLNK-PREP				@IC-01 NO3-02	SOLID		<.703	N/A	ug/g
		1 BLNK-PREP				@IC-01 PO4-02	SOLID		<.572	N/A	ug/g
		1 BLNK-PREP				@IC-01 SO4-02	SOLID		<.697	N/A	ug/g
		1 BLNK-PREP				@IC-01 OXALATE2	SOLID		N/A	N/A	ug/g
		2 STD				@IC-01 F-02	SOLID		575	N/A	ug/g
		2 STD				@IC-01 CL-02	SOLID		81.3	N/A	ug/g
		2 STD				@IC-01 NO2-02	SOLID		535.1	N/A	ug/g
		2 STD				@IC-01 BR-02	SOLID		~~607.1~~ N/A	N/A	ug/g
		2 STD				@IC-01 NO3-02	SOLID		~~515.1~~ 607.1	N/A	ug/g
		2 STD				@IC-01 PO4-02	SOLID		512.1	N/A	ug/g
		2 STD				@IC-01 SO4-02	SOLID		607	N/A	ug/g
		2 STD				@IC-01 OXALATE2	SOLID		N/A	N/A	ug/g
95000057	BX-109	3 SAMPLE	S95T000977	0	W	@IC-01 F-02	SOLID	N/A	<4.2163	<4.2162	ug/g
95000057	BX-109	3 SAMPLE	S95T000977	0	W	@IC-01 CL-02	SOLID	N/A	1.2263	5.64e2	ug/g

GMF 7/11/95

GMF 7/11/95

Data Entry Comments: S95T000977 6.0310 g/L Dup. 6.1370 g/L
980 5.0310 g/L 5.0440 g/L

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1625

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000977	0	W	@IC-01 NO2-02	SOLID	N/A	1.59e4	3.62e3	ug/g
95000057	BX-109	3 SAMPLE	S95T000977	0	W	@IC-01 NO3-02	SOLID	N/A	1.79e5	4.78e3	ug/g
95000057	BX-109	3 SAMPLE	S95T000977	0	W	@IC-01 PO4-02	SOLID	N/A	2.34e4	3.89e3	ug/g
95000057	BX-109	3 SAMPLE	S95T000977	0	W	@IC-01 SO4-02	SOLID	N/A	1.58e4	4.76e3	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 F-02	SOLID	<4.21e2	4.41e2	N/A	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 CL-02	SOLID	1.22e3	1.06e3	N/A	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 NO2-02	SOLID	1.59e4	1.40e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 NO3-02	SOLID	1.79e5	1.56e5	N/A	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 PO4-02	SOLID	2.34e4	2.04e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 SO4-02	SOLID	1.58e4	1.40e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000977	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 CL-02	SOLID		100.8	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 F-02	SOLID		99.8	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 NO2-02	SOLID		103.4	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 BR-02	SOLID		N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 NO3-02	SOLID		153.6	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 PO4-02	SOLID		103.1	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 SO4-02	SOLID		101.5	N/A	ug/g
95000057	BX-109	5 SPK	S95T000977	0	W	@IC-01 OXALATE2	SOLID		N/A	N/A	ug/g
95000057	BX-109	6 SAMPLE	S95T000980	0	W	@IC-01 F-02	SOLID	N/A	<5.05e2	5.05e2	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1625

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL 6.7 gMU	
95000057	BX-109	6	SAMPLE	S95T000980	0	W	@IC-01 CL-02	SOLID	N/A	1.33e3	~~5.64e2~~	ug/g
95000057	BX-109	6	SAMPLE	S95T000980	0	W	@IC-01 NO2-02	SOLID	N/A	1.82e4	4.34e3	ug/g
95000057	BX-109	6	SAMPLE	S95T000980	0	W	@IC-01 NO3-02	SOLID	N/A	1.88e5	5.73e3	ug/g
95000057	BX-109	6	SAMPLE	S95T000980	0	W	@IC-01 PO4-02	SOLID	N/A	3.39e4	4.66e3	ug/g
95000057	BX-109	6	SAMPLE	S95T000980	0	W	@IC-01 SO4-02	SOLID	N/A	1.70e4	5.68e3	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 F-02	SOLID	<5.05e2	<5.03e2	N/A	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 CL-02	SOLID	1.33e3	1.06e3	N/A	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 NO2-02	SOLID	1.82e4	1.47e4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 NO3-02	SOLID	1.88e5	1.49e5	N/A	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 PO4-02	SOLID	3.39e4	2.79e4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 SO4-02	SOLID	1.70e4	1.39e4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000980	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 CL-02	SOLID		96.0	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 F-02	SOLID		101.1	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 NO2-02	SOLID		96.9	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 BR-02	SOLID		N/A	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 NO3-02	SOLID		94.1	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 PO4-02	SOLID		95.2	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 SO4-02	SOLID		93.4	N/A	ug/g
95000057	BX-109	8	SPK	S95T000980	0	W	@IC-01 OXALATE2	SOLID		N/A	N/A	ug/g

AMF 7/11/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1625

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 1625

Joan Fuyo for Ed Colvin 7/11/95
Analyst Signature **Date**

See original 1625 for signature

Analyst Signature **Date**

Entered + Approved 7/11/95
J. M. Fuyo

Data Entry Comments:
Sample prep noticed organic layer in the samples, this may contribute to higher RPD's. Poor spike recovery on NO_3 may be due to high level in sample. JMF

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

BEST AVAILABLE COPY

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000977 & S95T000980		
TEST CODE:	@IC-01	ANALYST:	Ed Colvin
INSTRUMENT:	IC01(4000i)	ANALYSIS DATE:	06/21/95
WORK LIST #:	1625	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	water digest

Result Units ug/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
86N9C	97.5%	102.9%	100.8%	98.2%	93.4%	96.7%		
S95T000977	<421.49	1.22E+03	1.59E+04	1.79E+05	2.34E+04	1.58E+04	<0.00	<0.00
S95T000977dup	<414.21	1.06E+03	1.40E+04	1.56E+05	2.04E+04	1.40E+04	<0.00	<0.00
Duplicate 1 RPD	N/A	14.0%	13.1%	14.0%	14.0%	12.6%	N/A	N/A
S95T000980	<505.27	1.33E+03	1.82E+04	1.88E+05	3.39E+04	1.70E+04	<0.00	<0.00
S95T000980dup	<503.97	1.06E+03	1.47E+04	1.49E+05	2.79E+04	1.39E+04	<0.00	<0.00
Duplicate 2 RPD	N/A	23.1%	21.0%	23.1%	19.3%	20.2%	ERR	ERR
S95T000977spk	99.8%	100.8%	103.4%	153.6%	103.1%	101.5%		

NARRATIVE: Analyst Comments:

Chemist Comments:

Sample 980 Dup RPD is poor - needs to be rerun. Sample 977 spike recovery, Sample prep noticed an organic layer in the sludge, which was not soluble in the water. Reruns will be done if sample prep concerns are resolved. JMF

Form Completed By:	[signature]	Date: 7/11/95
Chemist Approval:	[signature]	Date: 7/11/95

LAB LEADER INFO	
Method:	La-533-106 c-2
Matrix:	solid
Test Code:	@IC-01
Work List #:	1625
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	86N9C
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	07/11/96
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	06/21/96
Time Complete:	10:56 AM
Instrument Code:	IC01(4000i)
Rerun:	0
Sample Prep:	water digest
Sample Point:	BX-106
Sample Type	
STANDARD	86N9C
SAMPLE 1	S95T000977
DUPLICATE 1	S95T000977dup
SAMPLE 2	S95T000980
DUPLICATE 2	S95T000980dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000977spk
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.532	<.703	<.572	<.697		
Standard Data (µg/mL)	57.5	81.3	535.1	807.1	512.1	807		
Sample 1 Data (µg/mL)	<.062	7.38E+00	8.62E+01	1.08E+03	1.41E+02	8.56E+01		
Sample 1 Dilution Factor	41	41	41	41	41	41		
Sample 1 Prep DF	6.031	6.031	6.031	6.031	6.031	6.031	6.031	6.031
Duplicate 1 Data (µg/mL)	<.062	6.52E+00	8.59E+01	9.67E+02	1.25E+02	8.56E+01		
Duplicate 1 Dilution Factor	41	41	41	41	41	41		
Duplicate 1 Prep DF	6.137	6.137	6.137	6.137	6.137	6.137	6.137	6.137
Sample 2 Data (µg/mL)	<.062	6.71E+00	9.14E+01	9.47E+02	1.70E+02	8.58E+01		
Sample 2 Dilution Factor	41	41	41	41	41	41		
Sample 2 Prep DF	6.031	6.031	6.031	6.031	6.031	6.031	6.031	6.031
Duplicate 2 Data (µg/mL)	<.062	6.34E+00	7.42E+01	7.53E+02	1.41E+02	7.02E+01		
Duplicate 2 Dilution Factor	41	41	41	41	41	41		
Duplicate 2 Prep DF	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	2.36E+01	3.92E+01	3.16E+02	1.46E+03	3.67E+02	3.51E+02		
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.25	10.25	10.25	10.25	10.25	10.25		
Std. Conc. (µg/mL)	59	79	531	818	548	828		
Detection Limit	0.062	0.083	0.532	0.703	0.572	0.697		
Matrix Detection Limit 1	4.21E+02	5.64E+02	3.82E+03	4.78E+03	3.89E+03	4.74E+03	0.00E+00	0.00E+00
Matrix Detection Limit 2	5.05E+02	6.76E+02	4.34E+03	5.73E+03	4.66E+03	5.68E+03	0.00E+00	0.00E+00
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	97.5%	102.9%	100.9%	99.2%	93.4%	96.7%		
Sample 1 in µg/g	<421.49	1.22E+03	1.59E+04	1.79E+05	2.34E+04	1.58E+04	<0.00	<0.00
Duplicate 1 in µg/g	<414.21	1.06E+03	1.40E+04	1.58E+05	2.04E+04	1.40E+04	<0.00	<0.00
Duplicate 1 RPD	N/A	14.0%	13.1%	14.0%	14.0%	12.6%	N/A	N/A
Sample 2 in µg/g	<505.27	1.33E+03	1.82E+04	1.88E+05	3.39E+04	1.70E+04	<0.00	<0.00
Duplicate 2 in µg/g	<503.87	1.06E+03	1.47E+04	1.49E+05	2.79E+04	1.39E+04	<0.00	<0.00
Duplicate 2 RPD	N/A	23.1%	21.0%	23.1%	19.3%	20.2%	ERR	ERR
Spike % Recovery	99.8%	100.9%	103.4%	153.6%	103.1%	101.5%		

Data Entry by: Jann M. Frye Date: 07/11/96
Approved by: Jann M. Frye Date: 7/11/96
Form DIONEX.WB1 Rev. 1.3

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000977 & S95T000980		
TEST CODE:	@IC-01	ANALYST:	Ed Colvin
INSTRUMENT:	IC01(4000i)	ANALYSIS DATE:	06/21/95
WORK LIST #:	1625	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	water digest

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
86N9C	97.5%	102.9%	100.8%	98.2%	93.4%	96.7%		
S95T000977	<421.49	1.22E+03	1.59E+04	1.79E+05	2.34E+04	1.58E+04	<0.00	<0.00
S95T000977dup	<414.21	1.06E+03	1.40E+04	1.56E+05	2.04E+04	1.40E+04	<0.00	<0.00
Duplicate 1 RPD	N/A	14.0%	13.1%	14.0%	14.0%	12.6%	N/A	N/A
S95T000980	<505.27	1.33E+03	1.82E+04	1.88E+05	3.39E+04	1.70E+04	<0.00	<0.00
S95T000980dup	<503.97	1.06E+03	1.47E+04	1.49E+05	2.79E+04	1.39E+04	<0.00	<0.00
Duplicate 2 RPD	N/A	23.1%	21.0%	23.1%	19.3%	20.2%	ERR	ERR
S95T000980spk	101.1%	96.0%	96.9%	94.1%	95.2%	93.4%		

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By:	[signature]	Date:	7/11/95
Chemist Approval:	[signature]	Date:	7/11/95

LAB LEADER INFO	
Method:	La-533-105 c-2
Matrix:	solid
Test Code:	@IC-01
Work List #:	1626
Batch #:	
Result Units (µg/g or µg/mL):	µg/g
Spike Book Number:	86N9C
Spike Sample #:	2
Prepared By:	Jann Frye
Prepared Date:	07/11/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	06/21/95
Time Complete:	10:56 AM
Instrument Code:	IC01(4000I)
Rerun:	0
Sample Prep:	water digest
Sample Point:	BX-109
Sample Type	
STANDARD	86N9C
SAMPLE 1	S95T000977
DUPLICATE 1	S95T000977dup
SAMPLE 2	S95T000980
DUPLICATE 2	S95T000980dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000980spk
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.532	<.703	<.572	<.897		
Standard Data (µg/mL)	67.5	91.3	535.1	807.1	512.1	807		
Sample 1 Data (µg/mL)	<.062	7.39E+00	9.62E+01	1.08E+03	1.41E+02	9.56E+01		
Sample 1 Dilution Factor	41	41	41	41	41	41		
Sample 1 Prep DF	6.031	6.031	6.031	6.031	6.031	6.031	6.031	6.031
Duplicate 1 Data (µg/mL)	<.062	6.62E+00	8.58E+01	9.67E+02	1.25E+02	8.56E+01		
Duplicate 1 Dilution Factor	41	41	41	41	41	41		
Duplicate 1 Prep DF	6.137	6.137	6.137	6.137	6.137	6.137	6.137	6.137
Sample 2 Data (µg/mL)	<.062	6.71E+00	8.14E+01	9.47E+02	1.70E+02	8.58E+01		
Sample 2 Dilution Factor	41	41	41	41	41	41		
Sample 2 Prep DF	5.031	5.031	5.031	5.031	5.031	5.031	5.031	5.031
Duplicate 2 Data (µg/mL)	<.062	5.34E+00	7.42E+01	7.63E+02	1.41E+02	7.02E+01		
Duplicate 2 Dilution Factor	41	41	41	41	41	41		
Duplicate 2 Prep DF	5.044	5.044	5.044	5.044	5.044	5.044	5.044	5.044
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 2 (µg/mL)	2.39E+01	3.71E+01	2.97E+02	1.18E+03	3.79E+02	3.20E+02		
Spike + Dup 2 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.25	10.25	10.25	10.25	10.25	10.25		
Std. Conc. (µg/mL)	59	79	531	818	548	828		
Detection Limit	0.062	0.083	0.532	0.703	0.572	0.897		
Matrix Detection Limit 1	4.21E+02	5.64E+02	3.62E+03	4.78E+03	3.89E+03	4.74E+03	0.00E+00	0.00E+00
Matrix Detection Limit 2	5.05E+02	6.78E+02	4.34E+03	5.73E+03	4.66E+03	5.68E+03	0.00E+00	0.00E+00
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/(Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	97.5%	102.9%	100.8%	98.2%	93.4%	98.7%		
Sample 1 in µg/g	<421.49	1.22E+03	1.59E+04	1.79E+05	2.34E+04	1.58E+04	<0.00	<0.00
Duplicate 1 in µg/g	<414.21	1.06E+03	1.40E+04	1.56E+05	2.04E+04	1.40E+04	<0.00	<0.00
Duplicate 1 RPD	N/A	14.0%	13.1%	14.0%	14.0%	12.6%	N/A	N/A
Sample 2 in µg/g	<505.27	1.33E+03	1.62E+04	1.88E+05	3.39E+04	1.70E+04	<0.00	<0.00
Duplicate 2 in µg/g	<503.97	1.06E+03	1.47E+04	1.49E+05	2.79E+04	1.39E+04	<0.00	<0.00
Duplicate 2 RPD	N/A	23.1%	21.0%	23.1%	19.3%	20.2%	ERR	ERR
Spike % Recovery	101.1%	96.0%	96.9%	94.1%	95.2%	93.4%		

Data Entry by: Jann Frye Date: 07/11/95

Approved by: Jann Frye Date: 7/11/95

Form DIONEX.WB1 Rev. 1.3

275

Sample Name: INSTR BLK
Data File : C:\DX\DATA\95062121.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst : Column:

Date: 06/21/1995 06:49:38

WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1

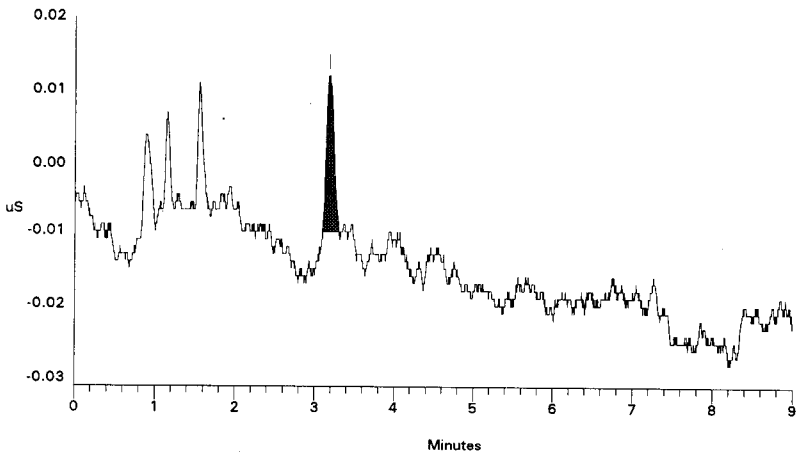
Calibration Volume Dilution Points Rate Start Stop Area Reject

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95062121.D01 Sample: INSTR BLK



SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 276 TO 283.

Sample Name: 86N9-C STD
Data File : C:\DX\DATA\95062121.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Column:

Date: 06/21/1995 06:59:44

WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1

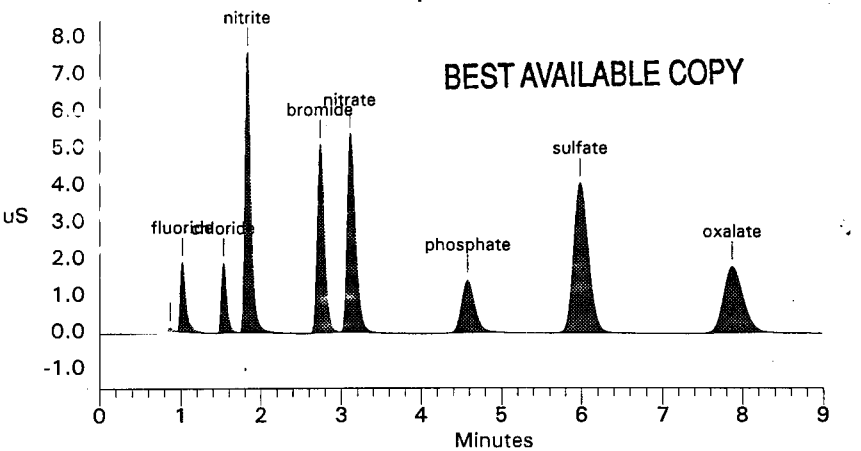
BD Valenzuela for EH Colvin 6-30-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	100	439	2	
2	1.02	fluoride	57.451	1881	9189	2	0.99
3	1.53	chloride	81.299	1896	8973	1	0.00
4	1.83	nitrite	535.111	7586	41233	1	-1.08
5	2.74	bromide	611.176	5110	32119	1	1.86
6	3.11	nitrate	607.123	5362	39535	1	3.67
7	4.58	phosphate	512.190	1443	16537	1	1.33
8	5.98	sulfate	607.000	4071	52708	1	2.75
9	7.87	oxalate	516.524	1805	31228	1	3.28
		Totals	3527.874	29254	231960		

File: 95062121.D02 Sample: 86N9-C STD



Sample Name: S95T000977
Data File : C:\DX\DATA\95062121.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column:

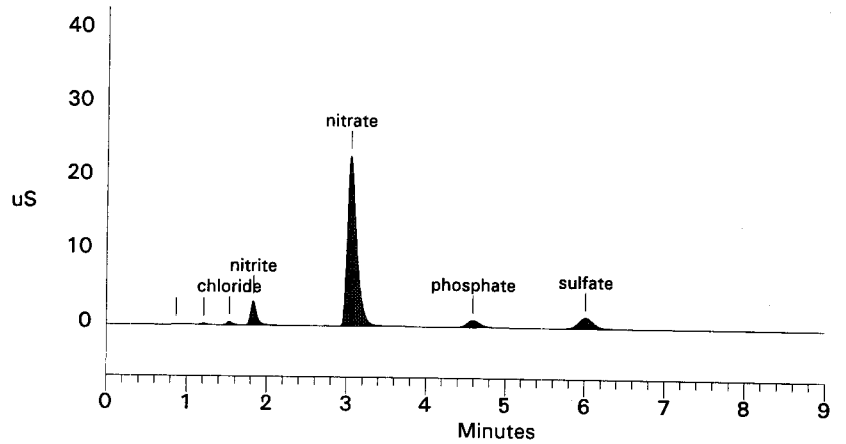
Date: 06/21/1995 07:29:07
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	86	414	1	
2	1.21		0.000	175	753	1	
3	1.53	chloride	7.376	433	1990	1	0.00
4	1.83	nitrite	96.161	3261	17204	1	-1.08
5	3.04	nitrate	1082.502	23064	188867	1	1.33
6	4.59	phosphate	141.283	962	10873	1	1.55
7	6.01	sulfate	95.545	1491	19171	1	3.26
		Totals	1422.867	29473	239272		

File: 95062121.D04 Sample: S95T000977



Sample Name: S95T000977 DUP
Data File : C:\DX\DATA\95062121.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst : Column:

Date: 06/21/1995 07:42:39

WHC-SD-WM-DP-154, REV. 0

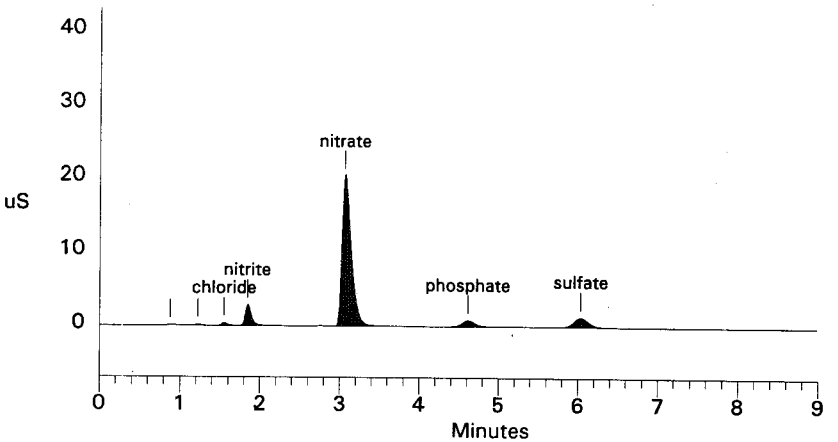
Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	69	327	1	
2	1.22		0.000	146	661	1	
3	1.55	chloride	6.521	380	1759	1	1.31
4	1.84	nitrite	85.837	2791	15157	1	-0.54
5	3.06	nitrate	957.393	20298	165604	1	2.00
6	4.61	phosphate	124.948	840	9492	1	1.99
7	6.03	sulfate	85.631	1312	16988	1	3.61
		Totals	1260.331	25838	209988		

File: 95062121.D05 Sample: S95T000977 DUP



Sample Name: S95T000977 + SPIKE
Data File : C:\DX\DATA\95062121.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst : Column:

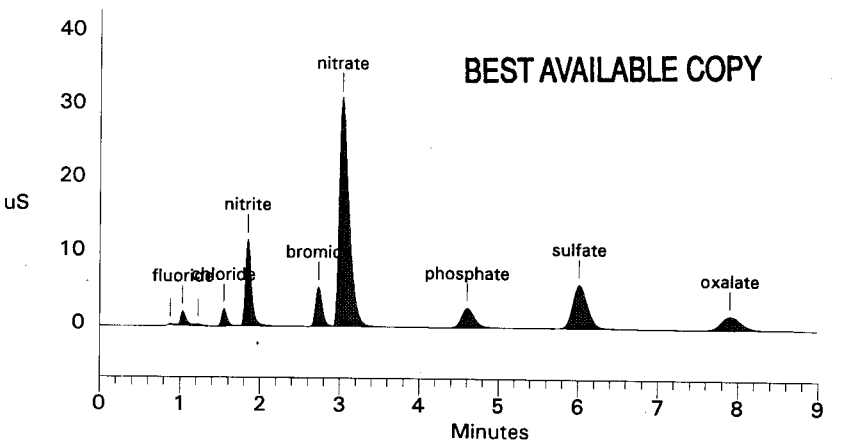
Date: 06/21/1995 08:20:44
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	158	714	2	
2	1.03	fluoride	23.557	1944	9286	3	1.98
3	1.22		0.000	215	1019	4	
4	1.54	chloride	39.247	2286	10689	1	0.65
5	1.84	nitrite	315.739	11766	60811	1	-0.54
6	2.73	bromide	239.715	5394	30963	1	1.49
7	3.02	nitrate	1462.290	31018	261768	1	0.67
8	4.60	phosphate	367.248	2645	30296	1	1.77
9	6.01	sulfate	350.585	5979	76240	1	3.26
10	7.90	oxalate	213.128	1849	31768	1	3.67
		Totals	3011.509	63256	513552		

File: 95062121.D06 Sample: S95T000977 + SPIKE



Sample Name: S95T000980
Data File : C:\DX\DATA\95062121.D07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : Column:

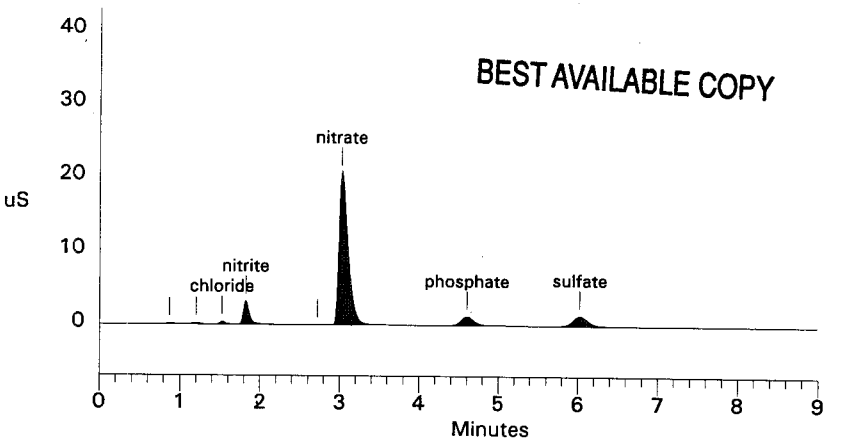
Date: 06/21/1995 09:41:22
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	84	391	1	
2	1.20		0.000	165	918	1	
3	1.52	chloride	6.713	386	1810	1	-0.65
4	1.82	nitrite	91.361	3141	16252	1	-1.62
6	3.02	nitrate	947.480	20629	163776	1	0.67
7	4.60	phosphate	170.434	1186	13344	1	1.77
8	6.02	sulfate	85.766	1334	17018	1	3.44
		Totals	1301.753	26925	213510		

File: 95062121.D07 Sample: S95T000980



Sample Name: S95T000980 DUP
Data File : C:\DX\DATA\95062121.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst : Column:

Date: 06/21/1995 09:56:41

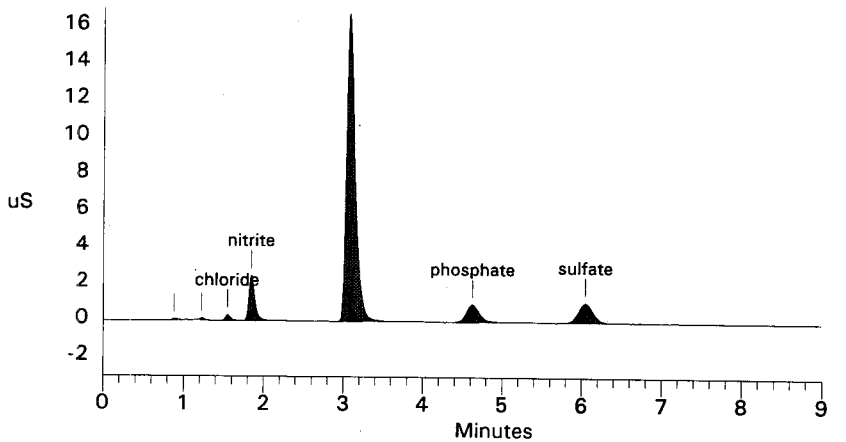
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	63	297	1	
2	1.22		0.000	112	471	1	
3	1.54	chloride	5.336	311	1438	1	0.65
4	1.84	nitrite	74.213	2483	12852	1	-0.54
5	3.06	nitrate	752.986	16602	128330	1	2.00
6	4.62	phosphate	140.852	959	10836	1	2.21
7	6.04	sulfate	70.246	1067	13607	1	3.78
		Totals	1043.633	21596	167832		

File: 95062121.D08 Sample: S95T000980 DUP



Sample Name: S95T000980 + SPIKE
Data File : C:\DX\DATA\95062121.D09
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9
Analyst : Column:

Date: 06/21/1995 10:08:56

WHC-SD-WM-DP-154, REV. 0

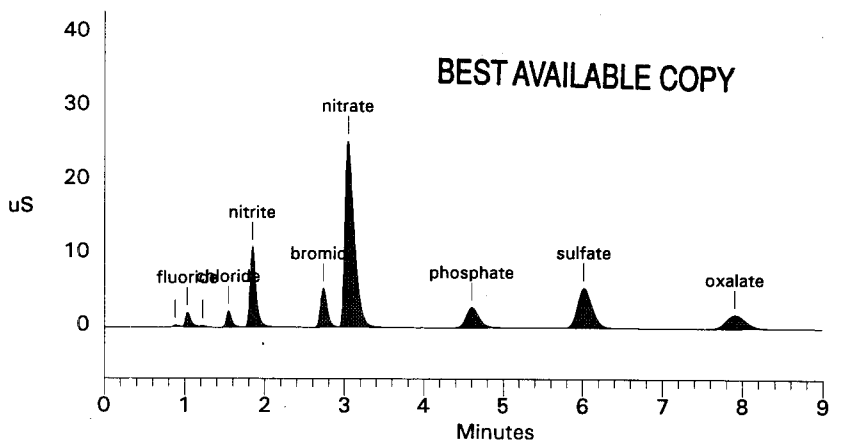
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	155	720	2	
2	1.03	fluoride	23.861	1914	9410	3	1.98
3	1.22		0.000	177	861	4	
4	1.54	chloride	37.053	2150	10085	1	0.65
5	1.84	nitrite	297.186	10928	57122	1	-0.54
6	2.73	bromide	239.662	5244	30956	1	1.49
7	3.04	nitrate	1180.096	25276	207264	1	1.33
8	4.60	phosphate	379.150	2738	31337	1	1.77
9	6.01	sulfate	320.419	5449	69394	1	3.26
10	7.90	oxalate	211.348	1829	31489	1	3.67
		Totals	2688.773	55860	448638		

File: 95062121.D09 Sample: S95T000980 + SPIKE



LABCORE Data Entry Template for Worklist# 1764

Analyst: EHC **Instrument:** IC01 IC01 **Book #** 86N9C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 IC. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				@IC-01 F-02	SOLID		< .462	N/A	ug/g
		1	BLNK-PREP				@IC-01 CL-02	SOLID		< .083	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO2-02	SOLID		< .532	N/A	ug/g
		1	BLNK-PREP				@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO3-02	SOLID		< .703	N/A	ug/g
		1	BLNK-PREP				@IC-01 PO4-02	SOLID		< .572	N/A	ug/g
		1	BLNK-PREP				@IC-01 SO4-02	SOLID		< .697	N/A	ug/g
		1	BLNK-PREP				@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01 F-02	SOLID		55.8	N/A	ug/g
		2	STD				@IC-01 CL-02	SOLID		81.1	N/A	ug/g
		2	STD				@IC-01 NO2-02	SOLID		544.7	N/A	ug/g
		2	STD				@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01 NO3-02	SOLID		627.7	N/A	ug/g
		2	STD				@IC-01 PO4-02	SOLID		513.5	N/A	ug/g
		2	STD				@IC-01 SO4-02	SOLID		619.8	N/A	ug/g
		2	STD				@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000976	0	W	@IC-01 F-02	SOLID	N/A	<2.5e2	2.5e2	ug/g
95000057	BX-109	3	SAMPLE	S95T000976	0	W	@IC-01 CL-02	SOLID	N/A	1.30e3	3.36e2	ug/g

Data Entry Comments:

S95T000976 5.1890g/L Dup 5.3490g/L

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1764

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 NO2-02	SOLID	N/A	1.90e4	2.15e3	ug/g
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 NO3-02	SOLID	N/A	1.93e5	2.85e3	ug/g
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 PO4-02	SOLID	N/A	3.73e4	2.31e3	ug/g
95000057	BX-109	3 SAMPLE	S95T000976	0	W	@IC-01 SO4-02	SOLID	N/A	1.67e4	2.82e3	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 F-02	SOLID	<2.51e2	<2.43e2	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 CL-02	SOLID	1.30e3	8.04e2	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 NO2-02	SOLID	1.90e4	1.14e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 BR-02	SOLID	N/A JMF 7/11/95 1.93e5	JMF 7/11/95 1.14e5	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 NO3-02	SOLID	1.93e5	1.14e5	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 PO4-02	SOLID	3.73e4	2.29e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 SO4-02	SOLID	1.67e4	1.01e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000976	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 CL-02	SOLID		95.3%	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 F-02	SOLID		94.1% N/A JMF 7/11/95	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 NO2-02	SOLID		95.8%	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 BR-02	SOLID		N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 NO3-02	SOLID		55.2%	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 PO4-02	SOLID		91.9%	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 SO4-02	SOLID		94.5%	N/A	ug/g
95000057	BX-109	5 SPK	S95T000976	0	W	@IC-01 OXALATE2	SOLID		N/A	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
06/30/95 13:48

LABCORE Data Entry Template for Worklist# 1764

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 1764

Analyst Signature **Date**

Jean Frye for
Ed Colvin 7/11/95
See original 1625 for
Signature

Entered & Verified 7/11/95
J. M. Frye

Analyst Signature **Date**

Data Entry Comments:

Sample prep noticed an aqueous/organic layers on this sample. They tried to mix it, but their sample duplicate RPD's are very poor probably due to the difficulty in sampling a multi-phase sample. Project Coordinator has been notified of the problem. JMF

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000976		
TEST CODE:	@ic01	ANALYST:	Ed Colvin
INSTRUMENT:	IC01(4000i)	ANALYSIS DATE:	06/20/95
WORK LIST #:	1764	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	Water digest

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
86n9c	94.6%	102.7%	102.6%	101.6%	93.7%	98.7%		
S95T000976	<250.92	1.30E+03	1.90E+04	1.93E+05	3.73E+04	1.67E+04	<0.00	<0.00
S95T000976dup	<243.41	8.04E+02	1.14E+04	1.14E+05	2.29E+04	1.01E+04	<0.00	<0.00
Duplicate 1 RPD	N/A	47.3%	50.4%	51.6%	47.9%	49.0%	N/A	N/A
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T000976spk	94.1%	95.3%	95.8%	55.2%	91.9%	94.5%		

NARRATIVE: Analyst Comments:

Chemist Comments:

May need rerun after sample prep concern due to organic layer in the sludge is resolved.
JMF

Form Completed By: Jason Fuyat Date: 7/10/95
Chemist Approval: Jason Fuyat Date: 7/10/95

287

LAB LEADER INFO	
Method:	ia-833-106 o-2
Matrix:	solid
Test Code:	@ic01
Work List #:	1764
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	86N9C
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	07/10/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	06/20/96
Time Complete:	07:56 AM
Instrument Code:	IC01(4000I)
Rerun:	0
Sample Prep:	Water digest
Sample Point:	BX-109
Sample Type	
STANDARD	86n9c
SAMPLE 1	S95T000976
DUPLICATE 1	S95T000976dup
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000976spk
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<0.062	<0.083	<0.532	<0.703	<0.672	<0.697		
Standard Data (µg/mL)	66.83	81.14	544.7	927.7	613.6	618.9		
Sample 1 Data (µg/mL)	<.062	6.78E+00	9.86E+01	1.00E+03	1.94E+02	8.86E+01		
Sample 1 Dilution Factor	21	21	21	21	21	21		
Sample 1 Prep DF	6.189	6.189	6.189	6.189	6.189	6.189	6.189	6.189
Duplicate 1 Data (µg/mL)	<.062	4.30E+00	6.07E+01	6.10E+02	1.22E+02	6.42E+01		
Duplicate 1 Dilution Factor	21	21	21	21	21	21		
Duplicate 1 Prep DF	6.349	6.349	6.349	6.349	6.349	6.349	6.349	6.349
Sample 2 Data (µg/mL)								
Sample 2 Dilution Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Dilution Factor								
Duplicate 2 Prep DF								
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	1.11E+01	2.18E+01	2.00E+02	1.07E+03	2.94E+02	2.05E+02		
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.50	10.50	10.50	10.50	10.50	10.50		
Std. Conc. (µg/mL)	59	78	531	918	548	628		
Detection Limit	0.062	0.083	0.532	0.703	0.672	0.697		
Matrix Detection Limit 1	2.51E+02	3.36E+02	2.15E+03	2.85E+03	2.31E+03	2.62E+03	0.00E+00	0.00E+00
Matrix Detection Limit 2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	84.6%	102.7%	102.6%	101.6%	93.7%	96.7%		
Sample 1 in µg/g	<250.92	1.30E+03	1.90E+04	1.93E+05	3.73E+04	1.67E+04	<0.00	<0.00
Duplicate 1 in µg/g	<243.41	8.04E+02	1.14E+04	1.14E+05	2.29E+04	1.01E+04	<0.00	<0.00
Duplicate 1 RPD	N/A	47.3%	50.4%	51.6%	47.8%	49.0%	N/A	N/A
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Spike % Recovery	84.1%	96.3%	95.9%	56.2%	91.9%	94.5%		

Data Entry by: Jann Frye
Approved by: Jann Frye
Form DIONEX.WB1 Rev. 1.3

Date: 07/10/95
Date: 7/10/95

Sample Name: INSTR BLANK
Data File : C:\DX\DATA\95062011.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst : Column:

Date: 06/20/1995 06:46:30
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

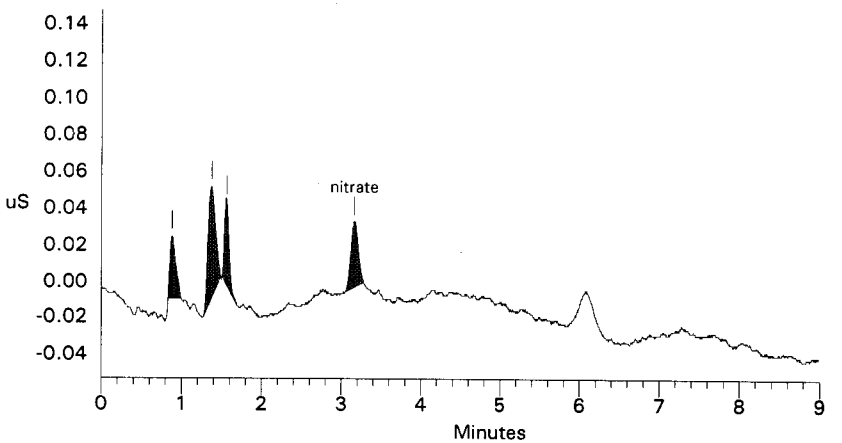
John Lynch 3/4/96
for E.D. Adams

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.37		0.000	61	397	1	
4	3.16	nitrate	0.328	36	235	1	5.33
		Totals	0.328	96	632		

File: 95062011.D01 Sample: INSTR BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 289 TO 294.

Sample Name: 86N9-C STD
Data File : C:\DX\DATA\95062011.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Column:

Date: 06/20/1995 06:56:30

WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1

PB Cohn 6/20/95

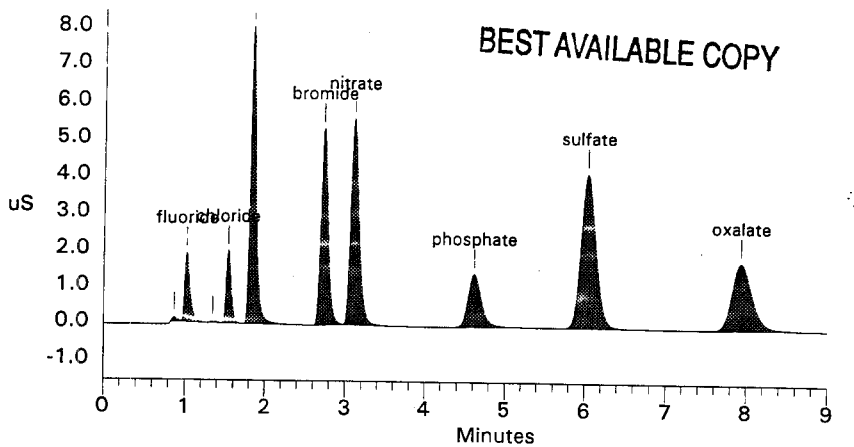
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	124	563	2	
2	1.02	fluoride	55.834	1881	8920	2	0.99
3	1.34		0.000	46	270	1	
4	1.53	chloride	81.144	1952	8956	1	0.00
5	1.83	nitrite	544.717	8035	42007	1	-1.08
6	2.72	bromide	632.520	5325	33314	1	1.12
7	3.10	nitrate	627.769	5587	40966	1	3.33
8	4.61	phosphate	513.503	1434	16582	1	1.99
9	6.03	sulfate	619.876	4185	53881	1	3.61
10	7.93	oxalate	525.345	1817	31788	1	4.07
		Totals	3600.708	30386	237247		

File: 95062011.D02 Sample: 86N9-C STD

BEST AVAILABLE COPY



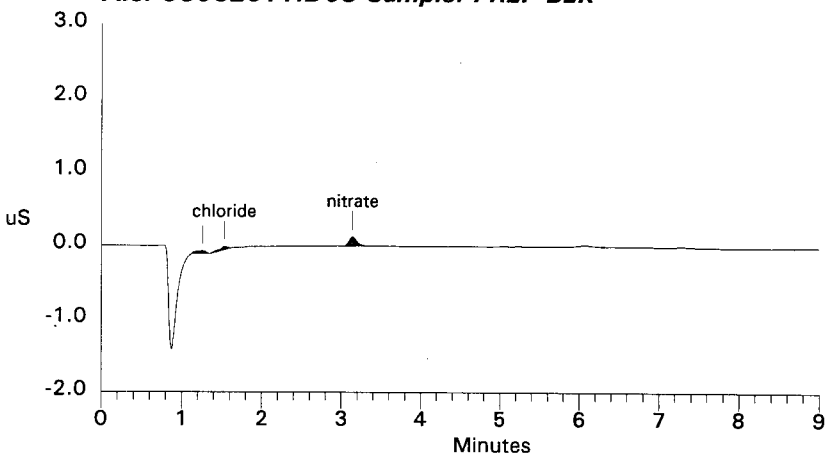
Sample Name: PREP BLK	Date: 06/20/1995 07:09:09
Data File : C:\DX\DATA\95062011.D03	WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 3	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.26		0.000	36	311	1	
2	1.53	chloride	0.027	43	300	1	0.00
3	3.14	nitrate	0.417	126	842	1	4.67
		Totals	0.444	204	1453		

File: 95062011.D03 Sample: PREP BLK



Sample Name: S95T000976
Data File : C:\DX\DATA\95062011.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column:

Date: 06/20/1995 07:27:27

WHC-SD-WM-DP-154, REV. 0

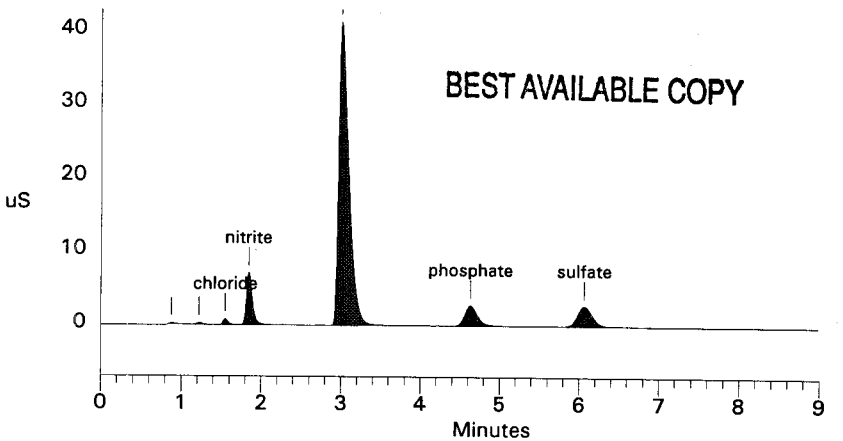
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	160	770	1	
2	1.22		0.000	291	1178	1	
3	1.55	chloride	6.757	803	3567	1	1.31
4	1.84	nitrite	98.646	7072	36342	1	-0.54
5	3.00	nitrate	1002.689	41278	362745	1	0.00
6	4.63	phosphate	193.599	2777	31234	1	2.43
7	6.06	sulfate	86.644	2746	35458	1	4.12
		Totals	1388.335	55127	471295		

File: 95062011.D04 Sample: S95T000976



Sample Name: S95T000976 DUP
Data File : C:\DX\DATA\95062011.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst : Column:

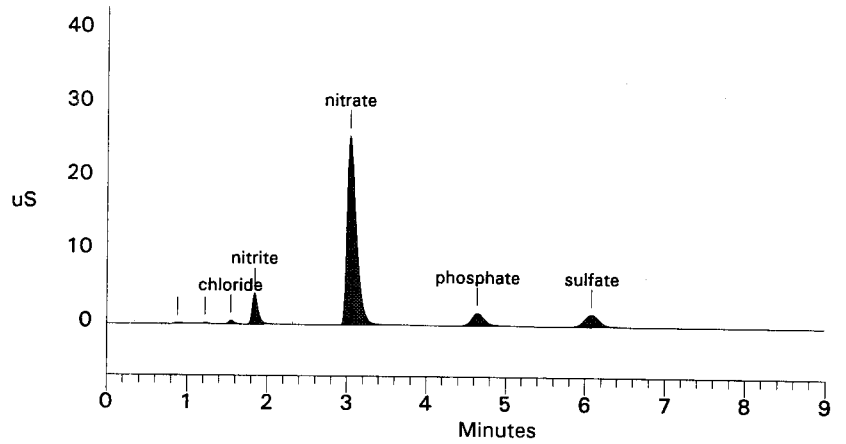
Date: 06/20/1995 07:41:22
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	115	550	1	
2	1.22		0.000	172	663	1	
3	1.54	chloride	4.300	489	2266	1	0.65
4	1.84	nitrite	60.745	4207	21655	1	-0.54
5	3.03	nitrate	609.775	25728	209241	1	1.00
6	4.64	phosphate	122.495	1723	19210	1	2.65
7	6.08	sulfate	54.179	1660	21426	1	4.47
		Totals	851.494	34095	275010		

File: 95062011.D05 Sample: S95T000976 DUP



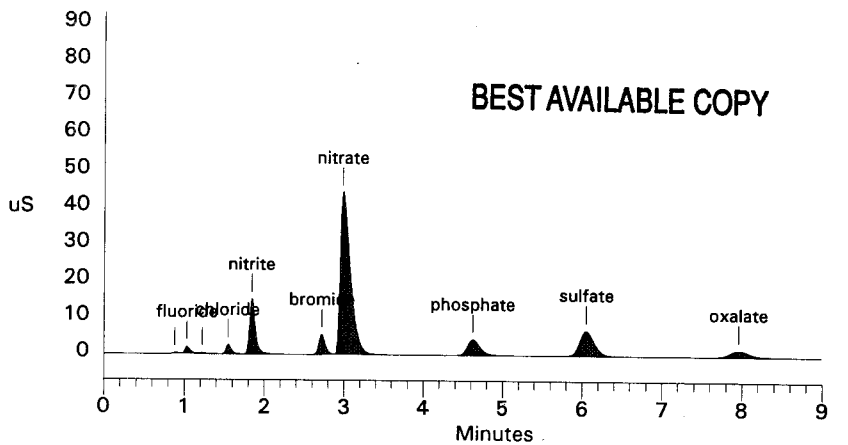
Sample Name: S95T000976 + SPIKE	Date: 06/20/1995 07:56:21
Data File : C:\DX\DATA\95062011.D06	WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	2700	5Hz	0.00	9.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	203	888	2	
2	1.03	fluoride	11.104	1833	8516	2	1.98
3	1.22		0.000	295	1240	2	
4	1.54	chloride	21.810	2502	11607	1	0.65
5	1.84	nitrite	200.331	14935	75808	1	-0.54
6	2.72	bromide	118.413	5370	29789	1	1.12
7	2.98	nitrate	1070.847	43948	391185	1	-0.67
8	4.62	phosphate	294.254	4274	48682	1	2.21
9	6.05	sulfate	205.367	6889	87730	1	3.95
10	7.96	oxalate	105.083	1772	30523	1	4.46
		Totals	2027.209	82020	685968		

File: 95062011.D06 Sample: S95T000976 + SPIKE



LABCORE Completed Worklist Report for Worklist# 1776

Analyst: smf **Instrument:** IC01 **Book#** 96ND8

Method: LA-533-101 Rev/Mod C-2

Worklist Comment: BX-109 liquid, 100X Prep Dil. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	BLNK-PREP		0		@IC-01	F-02	LIQUID	1	<.06	ug/mL
1	BLNK-PREP		0		@IC-01	CL-02	LIQUID	1	<0.083	ug/mL
1	BLNK-PREP		0		@IC-01	NO2-02	LIQUID	1	<.5	ug/mL
1	BLNK-PREP		0		@IC-01	BR-02	LIQUID	1	<0.604	ug/mL
1	BLNK-PREP		0		@IC-01	NO3-02	LIQUID	1	<0.703	ug/mL
1	BLNK-PREP		0		@IC-01	PO4-02	LIQUID	1	<.5	ug/mL
1	BLNK-PREP		0		@IC-01	SO4-02	LIQUID	1	<.7	ug/mL
1	BLNK-PREP		0		@IC-01	OXALATE2	LIQUID	1	n/a	ug/mL
2	STD		0		@IC-01	F-02	LIQUID	59	55.6	94.240 % Recovery
2	STD		0		@IC-01	CL-02	LIQUID	79	76.2	96.460 % Recovery
2	STD		0		@IC-01	NO2-02	LIQUID	547	513	93.780 % Recovery
2	STD		0		@IC-01	BR-02	LIQUID	575	523.8	91.100 % Recovery
2	STD		0		@IC-01	NO3-02	LIQUID	614	583	94.950 % Recovery
2	STD		0		@IC-01	PO4-02	LIQUID	546	502	91.940 % Recovery
2	STD		0		@IC-01	SO4-02	LIQUID	631	586	92.870 % Recovery
2	STD		0		@IC-01	OXALATE2	LIQUID	515	n/a	% Recovery
4	DUP	S95T000993	0		@IC-01	F-02	LIQUID	<6.26e2	<6.26e2	RPD
4	DUP	S95T000993	0		@IC-01	CL-02	LIQUID	2.26e3	2.08e3	8.290 RPD
4	DUP	S95T000993	0		@IC-01	NO2-02	LIQUID	3.19e4	2.96e4	7.480 RPD
4	DUP	S95T000993	0		@IC-01	BR-02	LIQUID	<7.04e3	<7.04e3	RPD
4	SAMPLE	S95T000993	0	V	@IC-01	BR-02	LIQUID	N/A <	7.04e3	7.040e+003 ug/mL
4	DUP	S95T000993	0		@IC-01	NO3-02	LIQUID	3.16e5	2.91e5	8.240 RPD
4	DUP	S95T000993	0		@IC-01	PO4-02	LIQUID	2.26e4	2.18e4	3.600 RPD
4	DUP	S95T000993	0		@IC-01	SO4-02	LIQUID	2.76e4	2.61e4	5.590 RPD
4	DUP	S95T000993	0		@IC-01	OXALATE2	LIQUID	n/a	n/a	RPD
5	SPK	S95T000993	0		@IC-01	F-02	LIQUID	100	94.7	94.700 % Recovery
5	SAMPLE	S95T000993	0	V	@IC-01	F-02	LIQUID	N/A <	6.26e2	626.000 ug/mL
5	SPK	S95T000993	0		@IC-01	CL-02	LIQUID	100	94.7	94.700 % Recovery
5	SAMPLE	S95T000993	0	V	@IC-01	CL-02	LIQUID	N/A	2.26e3	838.000 ug/mL
5	SPK	S95T000993	0		@IC-01	NO2-02	LIQUID	100	94.4	94.400 % Recovery
5	SAMPLE	S95T000993	0	V	@IC-01	NO2-02	LIQUID	N/A	3.19e4	5.370e+003 ug/mL
5	SPK	S95T000993	0		@IC-01	BR-02	LIQUID	100	92.6	92.600 % Recovery
5	SPK	S95T000993	0		@IC-01	NO3-02	LIQUID	100	90.8	90.800 % Recovery
5	SAMPLE	S95T000993	0	V	@IC-01	NO3-02	LIQUID	N/A	3.16e5	6.100e+003 ug/mL
5	SPK	S95T000993	0		@IC-01	PO4-02	LIQUID	100	90.2	90.200 % Recovery
5	SAMPLE	S95T000993	0	V	@IC-01	PO4-02	LIQUID	N/A	2.26e4	7.100e+003 ug/mL
5	SPK	S95T000993	0		@IC-01	SO4-02	LIQUID	100	93.4	93.400 % Recovery
5	SAMPLE	S95T000993	0	V	@IC-01	SO4-02	LIQUID	N/A	2.76e4	5.780e+003 ug/mL
5	SPK	S95T000993	0		@IC-01	OXALATE2	LIQUID	100	n/a	% Recovery
7	DUP	S95T001001	0		@IC-01	F-02	LIQUID	<6.26e2	<6.26e2	RPD
7	SAMPLE	S95T001001	0	V	@IC-01	F-02	LIQUID	N/A <	6.26e2	626.000 ug/mL

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 1776

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
7	DUP	S95T001001	0		@IC-01	CL-02	LIQUID	<8.38e2	<8.38e2	RPD
7	SAMPLE	S95T001001	0	V	@IC-01	CL-02	LIQUID	N/A <	8.38e2	838.000 ug/mL
7	DUP	S95T001001	0		@IC-01	NO2-02	LIQUID	7.92e3	8.06e3	1.750 RPD
7	SAMPLE	S95T001001	0	V	@IC-01	NO2-02	LIQUID	N/A	7.92e3	5.370e+003 ug/mL
7	DUP	S95T001001	0		@IC-01	BR-02	LIQUID	2.17e4	2.22e4	2.500 RPD
7	SAMPLE	S95T001001	0	V	@IC-01	BR-02	LIQUID	N/A	2.17e4	7.040e+003 ug/mL
7	DUP	S95T001001	0		@IC-01	NO3-02	LIQUID	6.24e4	6.21e4	0.480 RPD
7	SAMPLE	S95T001001	0	V	@IC-01	NO3-02	LIQUID	N/A	6.24e4	6.100e+003 ug/mL
7	DUP	S95T001001	0		@IC-01	PO4-02	LIQUID	<7.10e3	<7.10e3	RPD
7	SAMPLE	S95T001001	0	V	@IC-01	PO4-02	LIQUID	N/A <	7.10e3	7.100e+003 ug/mL
7	DUP	S95T001001	0		@IC-01	SO4-02	LIQUID	6.37e3	6.45e3	1.250 RPD
7	SAMPLE	S95T001001	0	V	@IC-01	SO4-02	LIQUID	N/A	6.37e3	5.780e+003 ug/mL
7	DUP	S95T001001	0		@IC-01	OXALATE2	LIQUID	n/a	n/a	RPD

Comments Section:

Comments for sample# S95T001001 **and test** @IC-01 .
S95T001001 also had high Br. This indicates probable contamination by hydrostatic head fluid. The PC was notified. She has now requested Br for this sample. JMF

Final page for worklist# 1776

See Attached Original for Signature
Analyst Signature **Date**

Analyst Signature **Date**

Reviewer Signature 7/26/95 **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 1776

Analyst: SMF **Instrument:** IC01 _____ **Book #** 96N9B

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 liquid, 100X Prep Dil. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP			@IC-01	F-02	LIQUID	_____	< .062	N/A	ug/mL
		1	BLNK-PREP			@IC-01	CL-02	LIQUID	_____	~~3.80~~ E-2 < .083 JMF 7/19/95	N/A	ug/mL
		1	BLNK-PREP			@IC-01	NO2-02	LIQUID	_____	< .532	N/A	ug/mL
		1	BLNK-PREP			@IC-01	BR-02	LIQUID	~~N/A~~	< .604 JMF 7/24/95 ~~N/A~~	N/A	ug/mL
		1	BLNK-PREP			@IC-01	NO3-02	LIQUID	_____	~~.475~~ E-1 < .703 JMF 7/19/95	N/A	ug/mL
		1	BLNK-PREP			@IC-01	PO4-02	LIQUID	_____	< .572	N/A	ug/mL
		1	BLNK-PREP			@IC-01	SO4-02	LIQUID	_____	< 1.697 JMF 7/19/95	N/A	ug/mL
		1	BLNK-PREP			@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL
		2	STD			@IC-01	F-02	LIQUID	59	55.6	N/A	ug/mL
		2	STD			@IC-01	CL-02	LIQUID	79	76.2	N/A	ug/mL
		2	STD			@IC-01	NO2-02	LIQUID	547	513	N/A	ug/mL
		2	STD			@IC-01	BR-02	LIQUID	~~N/A~~	~~N/A~~	N/A	ug/mL
		2	STD			@IC-01	NO3-02	LIQUID	614	583	N/A	ug/mL
		2	STD			@IC-01	PO4-02	LIQUID	546	507	N/A	ug/mL
		2	STD			@IC-01	SO4-02	LIQUID	631	586	N/A	ug/mL
		2	STD			@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	3	SAMPLE	S95T000993	0	@IC-01	F-02	LIQUID	N/A	~~5.06~~ E+2 < 6.26e2 JMF 7/19/95		ug/mL
95000059	BX-109	3	SAMPLE	S95T000993	0	@IC-01	CL-02	LIQUID	N/A	2.26 E+3 8.38e2		ug/mL

Data Entry Comments: See attached printed copy for BR result JMF 7/19/95

LMCS 96N9B .100-10 and the rest of series

SPIKE 96N9B .100 ml

JM Leyn

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1776

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T000993	0	@IC-01	NO2-02	LIQUID	N/A	3.19 E24 gmf 7/14/95	5.37e3	ug/mL
95000059	BX-109	3 SAMPLE	S95T000993	0	@IC-01	NO3-02	LIQUID	N/A	3.16 E35 gmf 7/14/95	6.10e3	ug/mL
95000059	BX-109	3 SAMPLE	S95T000993	0	@IC-01	PO4-02	LIQUID	N/A	2.76 E24 gmf 7/14/95	7.10e3	ug/mL
95000059	BX-109	3 SAMPLE	S95T000993	0	@IC-01	SO4-02	LIQUID	N/A	2.76 E24 gmf 7/14/95	5.78e3	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	F-02	LIQUID	gmf 7/14/95 <6.26e2	<6.26e2	<6.26e2	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	CL-02	LIQUID	gmf 7/14/95 2.76 E13	3.08 E13 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	NO2-02	LIQUID	gmf 7/14/95 3.19 E24	2.96 E24 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	BR-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	NO3-02	LIQUID	gmf 7/14/95 3.16 E35	2.91 E35 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	PO4-02	LIQUID	gmf 7/14/95 2.76 E24	2.18 E24 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	SO4-02	LIQUID	gmf 7/14/95 2.76 E24	2.61 E24 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	4 DUP	S95T000993	0	@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	F-02	LIQUID		94.7	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	CL-02	LIQUID		94.8	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	NO2-02	LIQUID		94.84 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	BR-02	LIQUID	~~N/A~~	~~N/A~~ 92.6 gmf 7/20/95	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	NO3-02	LIQUID		90.98 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	PO4-02	LIQUID		90.32 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	SO4-02	LIQUID		~~93.4~~ 102.7 gmf 7/14/95	N/A	ug/mL
95000059	BX-109	5 SPK	S95T000993	0	@IC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	6 SAMPLE	S95T001001	0	@IC-01	F-02	LIQUID	N/A	<6.26e2 <6.06	6.26e2 gmf 7/14/95	ug/mL

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1776

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 SAMPLE	S95T001001	0		AIC-01	CL-02	LIQUID	N/A	~~7.07~~	~~8.38e2~~ <8.38e2	ug/mL
95000059	BX-109	6 SAMPLE	S95T001001	0		AIC-01	NO2-02	LIQUID	N/A	7.92 E/3	5.37e3 E/4	ug/mL
95000059	BX-109	6 SAMPLE	S95T001001	0		AIC-01	NO3-02	LIQUID	N/A	6.24 E/4	6.10e3	ug/mL
95000059	BX-109	6 SAMPLE	S95T001001	0		AIC-01	PO4-02	LIQUID	N/A	~~5.16~~ E/4	7.10e3 E/3	ug/mL
95000059	BX-109	6 SAMPLE	S95T001001	0		AIC-01	SO4-02	LIQUID	N/A	6.37 E/3	5.78e3	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	F-02	LIQUID	~~5.06~~	~~5.06~~	N/A	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	CL-02	LIQUID	~~7.07~~	~~5.16~~	N/A	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	NO2-02	LIQUID	7.92 E/3	8.06 E/3	N/A	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	BR-02	LIQUID	N/A	N/A	N/A	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	NO3-02	LIQUID	~~7.10e3~~ 6.24 E/4	6.21 E/4	N/A	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	PO4-02	LIQUID	<7.10 e3 E/4	~~5.16~~ E/4	<7.10e3 E/4	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	SO4-02	LIQUID	6.37 E/3	6.45 E/3	N/A	ug/mL
95000059	BX-109	7 DUP	S95T001001	0		AIC-01	OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL

Final page for worklist # 1776

Analyst Signature Date

Analyst Signature Date

Data Entry Comments: Sample S95T001001 also had 2.17e4 Br in sample and 2.22e4 Br in duplicate. This means sample was contaminated with hydrostatic head fluid. gmf

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000993 & S95T001001		
TEST CODE:	@IC-01	ANALYST:	Susie Fulton
INSTRUMENT:	ic01(4000i)	ANALYSIS DATE:	07/11/95
WORK LIST #:	1776	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	Prep Dilution

Result Units µg/mL	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
96N9B	94.2%	96.4%	93.7%	94.9%	91.9%	92.9%	91.1%	
S95T000993	<626.20	2.26E+03	3.19E+04	3.16E+05	2.26E+04	2.76E+04	<7039.70	<0.00
S95T000993dup	<626.20	2.08E+03	2.96E+04	2.91E+05	2.18E+04	2.61E+04	<7039.70	<0.00
Duplicate 1 RPD	N/A	8.0%	7.3%	8.3%	3.7%	5.7%	N/A	N/A
S95T001001	<626.20	<838.30	7.92E+03	6.24E+04	<7100.30	6.37E+03	2.17E+04	<0.00
S95T001001	<626.20	<838.30	8.06E+03	6.21E+04	<7100.30	6.45E+03	2.22E+04	<0.00
Duplicate 2 RPD	N/A	N/A	1.9%	0.4%	N/A	1.2%	2.5%	ERR
S95T000993spk	94.7%	94.8%	94.4%	90.8%	90.2%	93.4%	92.6%	

NARRATIVE: Analyst Comments:

Chemist Comments:

Presence of Br in S95T001001 indicates contamination by hydrostatic head fluid. Project Coordinator was notified
J.M. Boyer

Form Completed By:	Jason Boyer	Date: 7/18/95
Chemist Approval:	Jason Boyer	Date: 7/18/95

300

LAB LEADER INFO	
Method:	LA-533-105 c-2
Matrix:	liquid
Test Code:	@IC-01
Work List #:	1778
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/mL
Spike Stock Number:	96N9B
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	07/18/95
Chemist:	Jann Frye
Analyst:	Susie Fulton
Analysis Date:	07/11/95
Time Complete:	06:27 AM
Instrument Code:	ic01(4000I)
Rerun:	0
Sample Prep:	Prep Dilution
Sample Point:	BX-109
Sample Type	
STANDARD	96N9B
SAMPLE 1	S95T000993
DUPLICATE 1	S95T000993dup
SAMPLE 2	S95T001001
DUPLICATE 2	S95T001001
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000993spk
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.532	<.703	<.572	<.697	<.604	
Standard Data (µg/mL)	55.6	78.17	512.6	582.6	502	686	523.8	
Sample 1 Data (µg/mL)	<.062	2.26E+01	3.19E+02	3.16E+03	2.26E+02	2.78E+02	<.604	
Sample 1 Dilution Factor	101	101	101	101	101	101	101	
Sample 1 Prep DF	100	100	100	100	100	100	100	100
Duplicate 1 Data (µg/mL)	<.062	2.09E+01	2.96E+02	2.91E+03	2.18E+02	2.61E+02	<.604	
Duplicate 1 Dilution Factor	101	101	101	101	101	101	101	
Duplicate 1 Prep DF	100	100	100	100	100	100	100	100
Sample 2 Data (µg/mL)	<.062	<.083	7.92E+01	8.24E+02	<.572	6.37E+01	2.17E+02	
Sample 2 Dilution Factor	101	101	101	101	101	101	101	
Sample 2 Prep DF	100	100	100	100	100	100	100	100
Duplicate 2 Data (µg/mL)	<.062	<.083	8.06E+01	8.21E+02	<.572	6.45E+01	2.22E+02	
Duplicate 2 Dilution Factor	101	101	101	101	101	101	101	
Duplicate 2 Prep DF	100	100	100	100	100	100	100	100
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.59E+01	9.74E+01	8.35E+02	3.72E+03	7.19E+02	8.65E+02	5.32E+02	
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	
Std. Conc. (µg/mL)	59	79	547	614	546	631	575	
Detection Limit	0.062	0.083	0.532	0.604	0.703	0.572	0.697	
Matrix Detection Limit 1	6.26E+02	8.38E+02	5.37E+03	6.10E+03	7.10E+03	5.78E+03	7.04E+03	0.00E+00
Matrix Detection Limit 2	6.26E+02	8.38E+02	5.37E+03	6.10E+03	7.10E+03	5.78E+03	7.04E+03	0.00E+00
Matrix Detection Limit 3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	84.2%	96.4%	93.7%	84.9%	91.9%	92.9%	91.1%	
Sample 1 in µg/mL	<626.20	2.26E+03	3.19E+04	3.16E+05	2.26E+04	2.78E+04	<7039.70	<0.00
Duplicate 1 in µg/mL	<626.20	2.09E+03	2.96E+04	2.91E+05	2.18E+04	2.61E+04	<7039.70	<0.00
Duplicate 1 RPD	N/A	8.0%	7.3%	8.3%	3.7%	6.7%	N/A	N/A
Sample 2 in µg/mL	<626.20	<838.30	7.92E+03	8.24E+04	<7100.30	6.37E+03	2.17E+04	<0.00
Duplicate 2 in µg/mL	<626.20	<838.30	8.06E+03	8.21E+04	<7100.30	6.45E+03	2.22E+04	<0.00
Duplicate 2 RPD	N/A	N/A	1.9%	0.4%	N/A	1.2%	2.5%	ERR
Spike % Recovery	94.7%	94.8%	94.4%	90.8%	90.2%	93.4%	92.6%	

Data Entry by: Jann Frye Date: 07/18/95
Approved by: Jann Frye Date: 7/18/95
Form DIONEX.WB1 Rev. 1.3

3C1

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000993 & S95T001001		
TEST CODE:	@IC-01	ANALYST:	FULTON
INSTRUMENT:	IC01	ANALYSIS DATE:	07/11/95
WORK LIST #:	1776	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	LIQUID

Result Units µg/mL	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
STD	94.2%	96.5%	93.8%	95.0%	91.9%	92.9%	91.1%	94.4%
S95T000993	<0.00	2.26E+01	3.19E+02	3.16E+03	2.26E+02	2.76E+02	<0.00	<0.00
S95T000993DUP	<0.00	2.08E+01	2.96E+02	2.91E+03	2.18E+02	2.61E+02	<0.00	<0.00
Duplicate 1 RPD	N/A	8.3%	7.5%	8.3%	3.6%	5.6%	N/A	N/A
S95T001001	<0.00	7.07E+00	7.92E+01	6.24E+02	5.16E+01	6.37E+01	2.17E+02	<0.00
S95T001001DUP	<0.00	5.76E+00	8.06E+01	6.21E+02	4.98E+01	6.45E+01	2.22E+02	<0.00
Duplicate 2 RPD	ERR	20.4%	1.8%	0.5%	3.6%	1.2%	2.3%	ERR
S95T001196SPK	94.7%	94.7%	94.3%	90.9%	90.3%	109.2%	92.5%	94.8%

NARRATIVE: Analyst Comments:

Chemist Comments: forgot 100 X prep dilution factor gmf 7/12/95

Form Completed By:	Date:
Chemist Approval:	Date:

302

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	LIQUID
Test Code:	@IC-01
Work List #:	1776
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/mL
Spike Book Number:	96N9B
Spike Sample #:	1
Prepared By:	RW STORM
Prepared Date:	07/13/95
Chemist:	FRYE
Analyst:	FULTON
Analysis Date:	07/11/95
Time Complete:	05:27 AM
Instrument Code:	IC01
Rerun:	N/A
Sample Prep:	LIQUID
Sample Point:	BX-109
Sample Type	
STANDARD	STD
SAMPLE 1	S95T000993
DUPLICATE 1	S95T000993DUP
SAMPLE 2	S95T001001
DUPLICATE 2	S95T001001DUP
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001196SPK
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.06	3.80E-02	<.5	4.75E-01	<.6	<.7	<.6	<.5
Standard Data (µg/mL)	55.6	76.2	513	583	502	686	524	486
Sample 1 Data (µg/mL)	<.06	2.26E+01	3.19E+02	3.16E+03	2.26E+02	2.76E+02	<.6	<.5
Sample 1 Dilution Factor	101	101	101	101	101	101	101	101
Sample 1 Prep DF	1	1	1	1	1	1	1	1
Duplicate 1 Data (µg/mL)	<.06	2.08E+01	2.96E+02	2.91E+03	2.18E+02	2.61E+02	<.6	<.5
Duplicate 1 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 1 Prep DF	1	1	1	1	1	1	1	1
Sample 2 Data (µg/mL)	<.06	7.07E+00	7.92E+01	6.24E+02	5.16E+01	6.37E+01	2.17E+02	<.6
Sample 2 Dilution Factor	101	101	101	101	101	101	101	101
Sample 2 Prep DF	1	1	1	1	1	1	1	1
Duplicate 2 Data (µg/mL)	<.06	5.76E+00	8.06E+01	6.21E+02	4.98E+01	6.45E+01	2.22E+02	<.5
Duplicate 2 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 2 Prep DF	1	1	1	1	1	1	1	1
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.59E+01	9.74E+01	8.35E+02	3.72E+03	7.19E+02	9.65E+02	5.32E+02	4.88E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	59	79	547	614	546	631	575	515
Detection Limit	<.06	<.08	<.5	<.7	<.6	<.7	<.6	<.5
Matrix Detection Limit 1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	94.2%	96.8%	93.8%	96.0%	91.9%	92.9%	91.1%	94.4%
Sample 1 in µg/mL	<0.00	2.26E+01	3.19E+02	3.16E+03	2.26E+02	2.76E+02	<0.00	<0.00
Duplicate 1 in µg/mL	<0.00	2.08E+01	2.96E+02	2.91E+03	2.18E+02	2.61E+02	<0.00	<0.00
Duplicate 1 RPD	N/A	8.3%	7.5%	8.3%	3.6%	5.6%	N/A	N/A
Sample 2 in µg/mL	<0.00	7.07E+00	7.92E+01	6.24E+02	5.16E+01	6.37E+01	2.17E+02	<0.00
Duplicate 2 in µg/mL	<0.00	5.76E+00	8.06E+01	6.21E+02	4.98E+01	6.45E+01	2.22E+02	<0.00
Duplicate 2 RPD	ERR	20.4%	1.8%	0.5%	3.6%	1.2%	2.3%	ERR
Spike % Recovery	94.7%	94.7%	94.3%	90.9%	90.3%	109.2%	92.8%	94.8%

Data Entry by: [signature] Date: 07/13/95

Approved by: Date:

Form DIONEX.WB1 Rev. 1.3

303

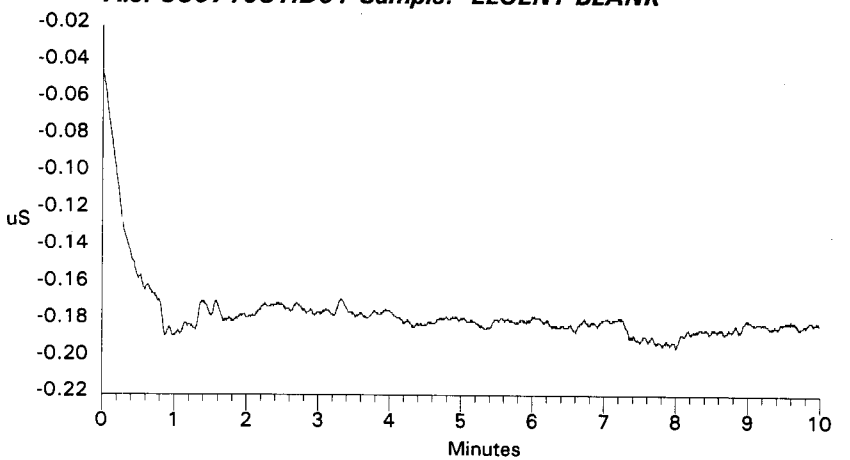
Sample Name: ELUENT BLANK		Date: 07/11/1995 01:48:58
Data File : C:\DX\DATA\95071031.D01		WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET		
ACI Address: 1 System: 1 Inject#: 1		Detector:CDM-1
Analyst : Jan Fuqua Susie Sutton 3/4/96	Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95071031.D01 Sample: ELUENT BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 304 TO 311.

Sample Name: LMCS STD 96N9B
Data File : C:\DX\DATA\95071031.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Jm Fulton 7-11-95 Column:

Date: 07/11/1995 02:11:20

WHC-SD-WM-DP-154, REV. 0

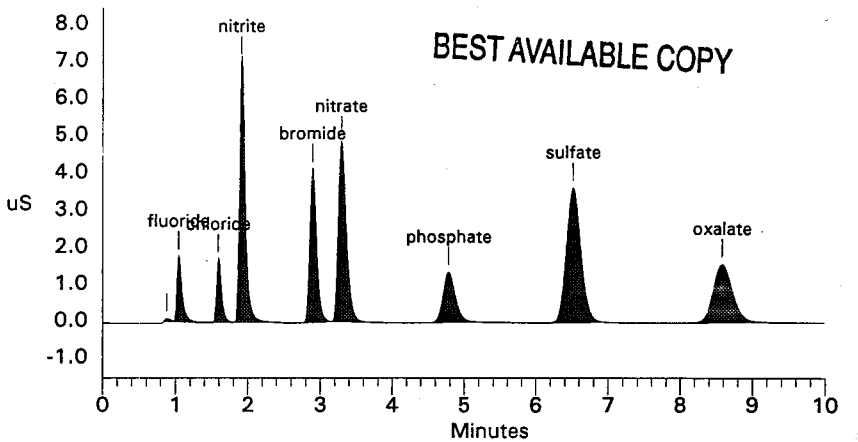
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	74	350	2	
2	1.04	fluoride	55.609	1761	8882	2	2.97
3	1.59	chloride	76.172	1707	8403	1	3.92
4	1.91	nitrite	512.562	7017	39415	1	3.24
5	2.89	bromide	523.859	4130	27240	1	3.21
6	3.29	nitrate	582.651	4853	37841	1	2.81
7	4.78	phosphate	502.044	1360	16185	1	-0.42
8	6.51	sulfate	586.045	3637	50800	1	-0.31
9	8.58	oxalate	485.915	1575	29287	1	-0.23
		Totals	3324.857	26113	218404		

File: 95071031.D02 Sample: LMCS STD 96N9B



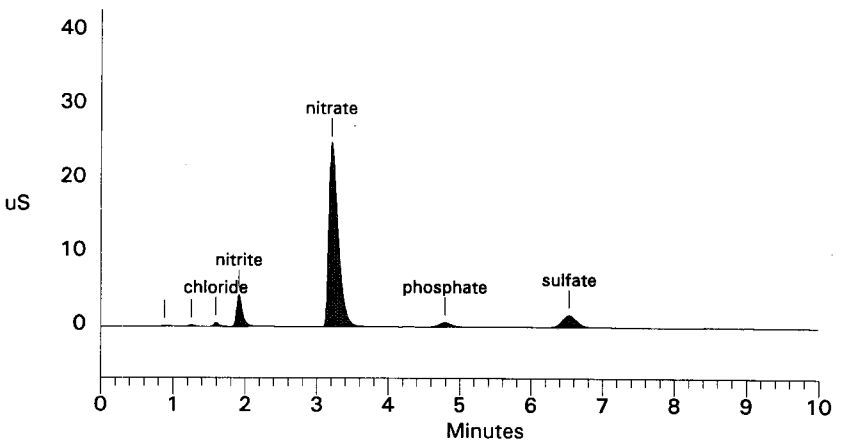
```
Sample Name: S95T000993                          Date: 07/11/1995 02:53:03
Data File  : C:\DX\DATA\95071031.D03              WHC-SD-WM-DP-154, REV. 0
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 3                      Detector:CDM-1
Analyst    :               Column:
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	96	514	1	
2	1.25		0.000	193	857	1	
3	1.59	chloride	22.556	509	2472	1	3.92
4	1.91	nitrite	318.583	4272	23783	1	3.24
5	3.20	nitrate	3163.623	24824	227146	1	0.00
6	4.79	phosphate	226.257	574	6704	1	-0.21
7	6.53	sulfate	275.856	1630	22795	1	0.00
		Totals	4006.876	32099	284272		

File: 95071031.D03 Sample: S95T000993



Sample Name: S95T000993 DUP
Data File : C:\DX\DATA\95071031.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column:

Date: 07/11/1995 03:07:55

WHC-SD-WM-DP-154, REV. 0

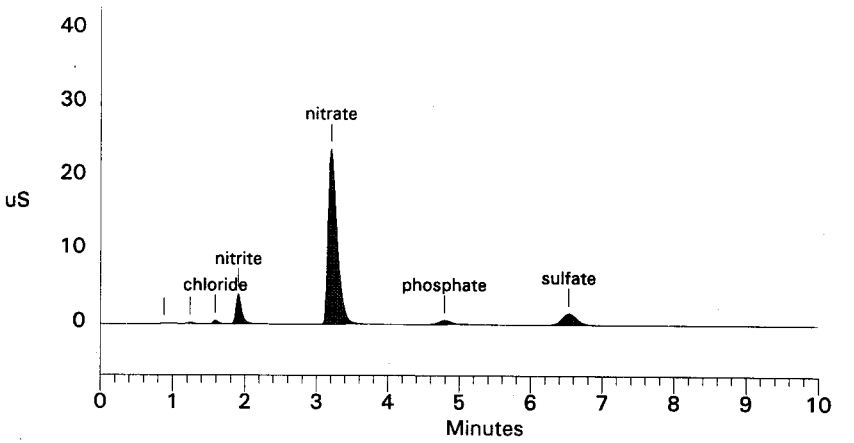
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	97	521	1	
2	1.24		0.000	171	826	1	
3	1.59	chloride	20.819	470	2281	1	3.92
4	1.91	nitrite	296.264	4020	21986	1	3.24
5	3.20	nitrate	2912.066	23743	207649	1	0.00
6	4.79	phosphate	218.183	539	6429	1	-0.21
7	6.53	sulfate	260.551	1525	21424	1	0.00
		Totals	3707.884	30566	261116		

File: 95071031.D04 Sample: S95T000993 DUP



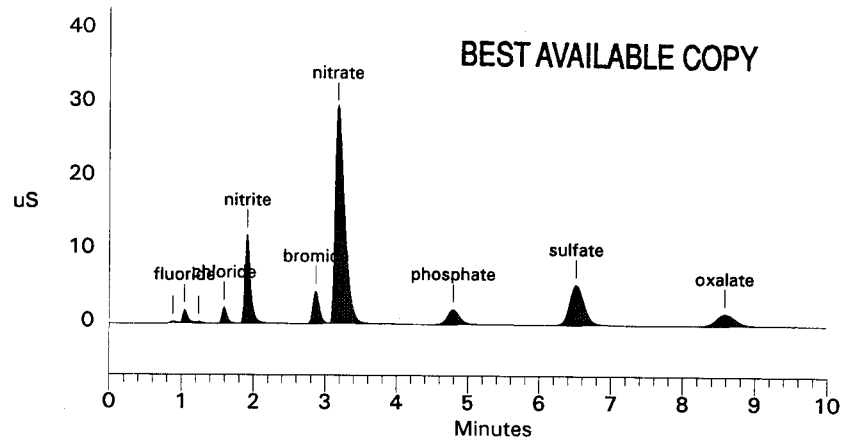
Sample Name: S95T000993 SPK	Date: 07/11/1995 03:18:41	
Data File : C:\DX\DATA\95071031.D05		WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET		
ACI Address: 1 System: 1 Inject#: 5	Detector:CDM-1	
Analyst : Column:		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	157	772	2	
2	1.04	fluoride	55.853	1803	8923	3	2.97
3	1.24		0.000	202	1048	4	
4	1.59	chloride	97.447	2231	10774	1	3.92
5	1.91	nitrite	834.900	12072	65421	1	3.24
6	2.87	bromide	532.202	4405	27706	1	2.50
7	3.17	nitrate	3721.256	29332	271306	1	-0.94
8	4.79	phosphate	718.776	2012	23740	1	-0.21
9	6.51	sulfate	864.884	5461	76355	1	-0.31
10	8.58	oxalate	488.463	1602	29449	1	-0.23
		Totals	7313.780	59277	515494		

File: 95071031.D05 Sample: S95T000993 SPK



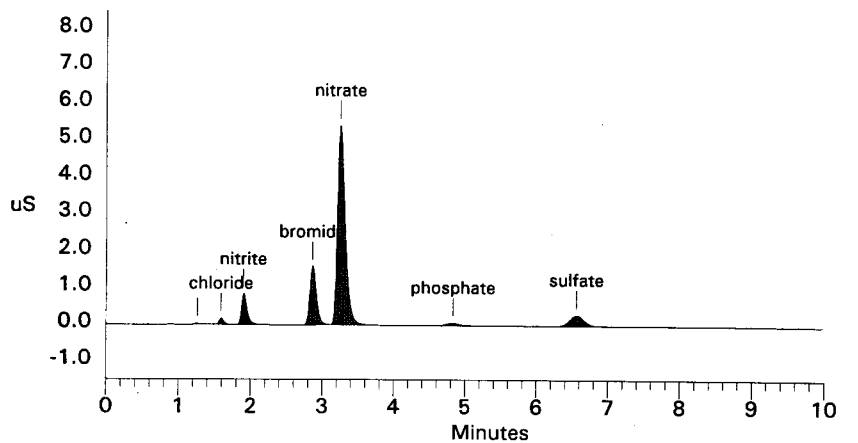
Sample Name: S95T001001	Date: 07/11/1995 04:52:50
Data File : C:\DX\DATA\95071031.D06	WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.59	chloride	7.075	167	772	1	3.92
3	1.90	nitrite	79.165	824	4511	1	2.70
4	2.86	bromide	216.768	1573	10218	1	2.14
5	3.25	nitrate	623.940	5398	40701	1	1.56
6	4.83	phosphate	51.603	66	774	1	0.63
7	6.56	sulfate	63.723	283	3888	1	0.46
		Totals	1042.274	8311	60863		

File: 95071031.D06 Sample: S95T001001



Sample Name: S95T001001 DUP
Data File : C:\DX\DATA\95071031.D07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : Column:

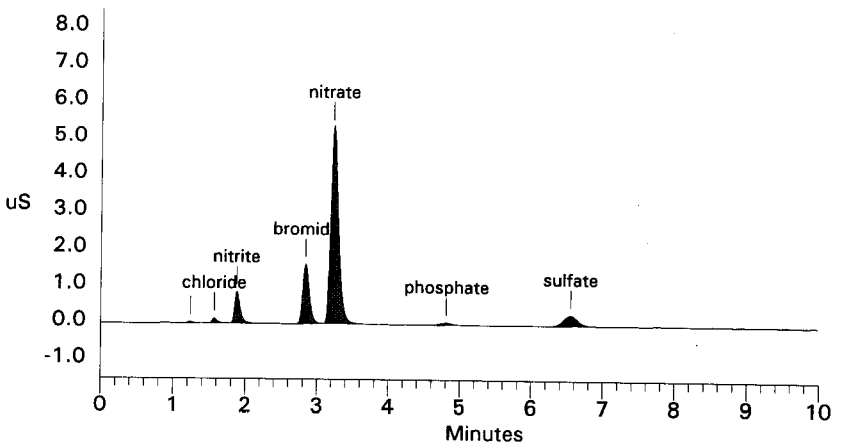
Date: 07/11/1995 05:08:17
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.57	chloride	5.762	140	628	1	2.61
3	1.88	nitrite	80.640	851	4629	1	1.62
4	2.84	bromide	222.125	1616	10513	1	1.43
5	3.22	nitrate	621.339	5325	40520	1	0.63
6	4.81	phosphate	49.798	64	713	1	0.21
7	6.55	sulfate	64.520	287	3959	1	0.31
		Totals	1044.183	8282	60962		

File: 95071031.D07 Sample: S95T001001 DUP



Sample Name: PREP BLANK
Data File : C:\DX\DATA\95071031.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst : Column:

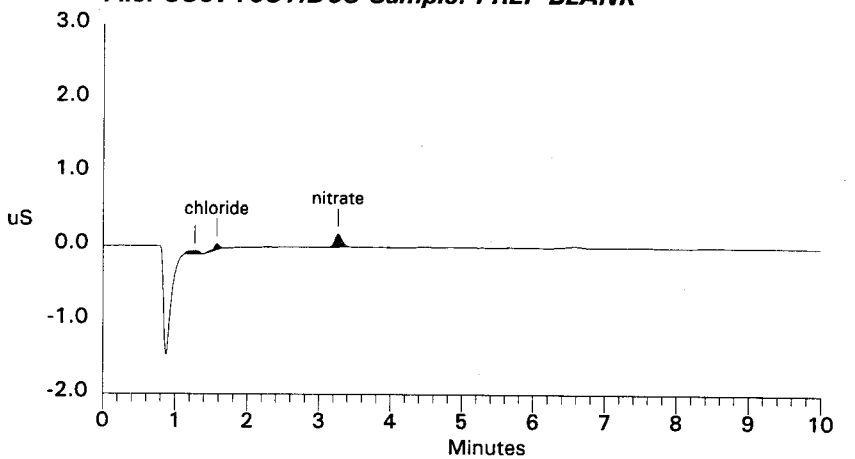
Date: 07/11/1995 05:27:52
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.27		0.000	41	438	1	
2	1.57	chloride	0.038	80	420	1	2.61
3	3.26	nitrate	0.475	176	1237	1	1.88
		Totals	0.513	297	2095		

File: 95071031.D08 Sample: PREP BLANK



LABCORE Completed Worklist Report for Worklist# 1842

Analyst: ehc **Instrument:** IC01 **Book#** 96N9C

Method: LA-533-105 Rev/Mod 0-2

Worklist Comment: BX-109 IC, examine sample for nonhomogeniety. JMF

Seq	Type	Sample#	R	A		Test	Matrix	Actual	Found	DL or Yield	Unit
1	BLNK-PREP			0	@IC-01	F-02	SOLID	1	<.06		ug/g
1	BLNK-PREP			0	@IC-01	CL-02	SOLID	1	<.08		ug/g
1	BLNK-PREP			0	@IC-01	NO2-02	SOLID	1	<.5		ug/g
1	BLNK-PREP			0	@IC-01	BR-02	SOLID	1	<.6		ug/g
1	BLNK-PREP			0	@IC-01	NO3-02	SOLID	1	<.7		ug/g
1	BLNK-PREP			0	@IC-01	PO4-02	SOLID	1	<.5		ug/g
1	BLNK-PREP			0	@IC-01	SO4-02	SOLID	1	<.7		ug/g
1	BLNK-PREP			0	@IC-01	OXALATE2	SOLID	1	<.5		ug/g
2	STD			0	@IC-01	F-02	SOLID	59	57	96.610	% Recovery
2	STD			0	@IC-01	CL-02	SOLID	79	77.6	98.230	% Recovery
2	STD			0	@IC-01	NO2-02	SOLID	541	528	97.600	% Recovery
2	STD			0	@IC-01	BR-02	SOLID	delete	delete	95.130	% Recovery
2	STD			0	@IC-01	NO3-02	SOLID	614	614	100.000	% Recovery
2	STD			0	@IC-01	PO4-02	SOLID	546	516	94.510	% Recovery
2	STD			0	@IC-01	SO4-02	SOLID	631	618	97.940	% Recovery
2	STD			0	@IC-01	OXALATE2	SOLID	delete	delete	97.850	% Recovery
3	SAMPLE	S95T000996	0	W	@IC-01	F-02	SOLID	N/A <	6.00e2	600.000	ug/g
3	SAMPLE	S95T000996	0	W	@IC-01	CL-02	SOLID	N/A	1.26e3	800.000	ug/g
3	SAMPLE	S95T000996	0	W	@IC-01	NO2-02	SOLID	N/A	2.10e4	5.000e+003	ug/g
3	SAMPLE	S95T000996	0	W	@IC-01	NO3-02	SOLID	N/A	1.94e5	7.000e+003	ug/g
3	SAMPLE	S95T000996	0	W	@IC-01	PO4-02	SOLID	N/A	2.76e4	5.000e+003	ug/g
3	SAMPLE	S95T000996	0	W	@IC-01	SO4-02	SOLID	N/A	1.82e4	7.000e+003	ug/g
4	DUP	S95T000996	0	W	@IC-01	F-02	SOLID	<6.00e2	<5.69e2		RPD
4	DUP	S95T000996	0	W	@IC-01	CL-02	SOLID	1.26e3	1.36e3	7.630	RPD
4	DUP	S95T000996	0	W	@IC-01	NO2-02	SOLID	2.10e4	2.10e4	0.000	RPD
4	DUP	S95T000996	0	W	@IC-01	BR-02	SOLID	n/a	n/a		RPD
4	DUP	S95T000996	0	W	@IC-01	NO3-02	SOLID	1.94e5	1.88e5	3.140	RPD
4	DUP	S95T000996	0	W	@IC-01	PO4-02	SOLID	2.76e4	2.66e4	3.690	RPD
4	DUP	S95T000996	0	W	@IC-01	SO4-02	SOLID	1.82e4	1.80e4	1.100	RPD
4	DUP	S95T000996	0	W	@IC-01	OXALATE2	SOLID	n/a	n/a		RPD
5	SPK	S95T000996	0	W	@IC-01	CL-02	SOLID	100	102.7	102.700	% Recovery
5	SPK	S95T000996	0	W	@IC-01	F-02	SOLID	100	88.0	88.000	% Recovery
5	SPK	S95T000996	0	W	@IC-01	NO2-02	SOLID	100	101.4	101.400	% Recovery
5	SPK	S95T000996	0	W	@IC-01	BR-02	SOLID	delete	delete	95.000	% Recovery
5	SPK	S95T000996	0	W	@IC-01	NO3-02	SOLID	100	103.5	103.500	% Recovery
5	SPK	S95T000996	0	W	@IC-01	PO4-02	SOLID	100	93.1	93.100	% Recovery
5	SPK	S95T000996	0	W	@IC-01	SO4-02	SOLID	100	96.2	96.200	% Recovery
5	SPK	S95T000996	0	W	@IC-01	OXALATE2	SOLID	delete	delete	97.000	% Recovery
6	SAMPLE	S95T000997	0	W	@IC-01	F-02	SOLID	N/A <	5.90e2	590.000	ug/g
6	SAMPLE	S95T000997	0	W	@IC-01	CL-02	SOLID	N/A	1.29e3	787.000	ug/g
6	SAMPLE	S95T000997	0	W	@IC-01	NO2-02	SOLID	N/A	1.89e4	4.920e+003	ug/g

Should be < 5.66e2 JMF 3/4/96

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 1842

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SAMPLE	S95T000997	0	W	@IC-01	NO3-02	SOLID	N/A	1.98e5	6.880e+003 ug/g
6	SAMPLE	S95T000997	0	W	@IC-01	PO4-02	SOLID	N/A	2.10e4	4.920e+003 ug/g
6	SAMPLE	S95T000997	0	W	@IC-01	SO4-02	SOLID	N/A	1.82e4	6.880e+003 ug/g
7	DUP	S95T000997	0	W	@IC-01	F-02	SOLID	<5.90e2	<5.69e2	RPD
7	DUP	S95T000997	0	W	@IC-01	CL-02	SOLID	1.29e3	1.31e3	1.540 RPD
7	DUP	S95T000997	0	W	@IC-01	NO2-02	SOLID	1.89e4	1.96e4	3.640 RPD
7	DUP	S95T000997	0	W	@IC-01	BR-02	SOLID	n/a	n/a	RPD
7	DUP	S95T000997	0	W	@IC-01	NO3-02	SOLID	1.98e5	1.99e5	0.500 RPD
7	DUP	S95T000997	0	W	@IC-01	PO4-02	SOLID	2.10e4	2.11e4	0.480 RPD
7	DUP	S95T000997	0	W	@IC-01	SO4-02	SOLID	1.82e4	1.86e4	2.170 RPD
7	DUP	S95T000997	0	W	@IC-01	OXALATE2	SOLID	n/a	n/a	RPD
8	SAMPLE	S95T000998	0	W	@IC-01	F-02	SOLID	N/A <	5.74e2	574.000 ug/g
8	SAMPLE	S95T000998	0	W	@IC-01	CL-02	SOLID	N/A	1.47e3	765.000 ug/g
8	SAMPLE	S95T000998	0	W	@IC-01	NO2-02	SOLID	N/A	2.09e4	4.780e+003 ug/g
8	SAMPLE	S95T000998	0	W	@IC-01	NO3-02	SOLID	N/A	2.01e5	6.690e+003 ug/g
8	SAMPLE	S95T000998	0	W	@IC-01	PO4-02	SOLID	N/A	2.35e4	4.780e+003 ug/g
8	SAMPLE	S95T000998	0	W	@IC-01	SO4-02	SOLID	N/A	1.87e4	6.690e+003 ug/g
9	DUP	S95T000998	0	W	@IC-01	F-02	SOLID	<5.74e2	<5.68e2	RPD
9	DUP	S95T000998	0	W	@IC-01	CL-02	SOLID	1.47e3	1.34e3	9.250 RPD
9	DUP	S95T000998	0	W	@IC-01	NO2-02	SOLID	2.09e4	2.01e4	3.900 RPD
9	DUP	S95T000998	0	W	@IC-01	BR-02	SOLID	n/a	n/a	RPD
9	DUP	S95T000998	0	W	@IC-01	NO3-02	SOLID	2.01e5	2.04e5	1.480 RPD
9	DUP	S95T000998	0	W	@IC-01	PO4-02	SOLID	2.35e4	2.25e4	4.350 RPD
9	DUP	S95T000998	0	W	@IC-01	SO4-02	SOLID	1.87e4	1.83e4	2.160 RPD
9	DUP	S95T000998	0	W	@IC-01	OXALATE2	SOLID	n/a	n/a	RPD

Final page for worklist# 1842

Analyst Signature Date

Analyst Signature Date

Reviewer Signature Date 7/27/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

worklistrpt Version 2.1 05/15/95
07/18/95 09:03

LABCORE Data Entry Template for Worklist# 1842

Analyst: PC **Instrument:** IC01 **Book #** 96N9-C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 IC, examine sample for nonhomogeniety. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				@IC-01 F-02	SOLID		<.06	N/A	ug/g
		1	BLNK-PREP				@IC-01 CL-02	SOLID		<.08	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO2-02	SOLID		<.5	N/A	ug/g
		1	BLNK-PREP				@IC-01 BR-02	SOLID		<.6	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO3-02	SOLID		<.7	N/A	ug/g
		1	BLNK-PREP				@IC-01 PO4-02	SOLID		<.5	N/A	ug/g
		1	BLNK-PREP				@IC-01 SO4-02	SOLID		<.7	N/A	ug/g
		1	BLNK-PREP				@IC-01 OXALATE2	SOLID		<.5	N/A	ug/g
		2	STD				@IC-01 F-02	SOLID	57 59	~~56.9~~ 57	N/A	ug/g JMF 7/27/95
		2	STD				@IC-01 CL-02	SOLID	~~79~~ 79	~~79~~ 77.6	N/A	ug/g AWS 7-25-95
		2	STD				@IC-01 NO2-02	SOLID	541	528	N/A	ug/g
		2	STD				@IC-01 BR-02	SOLID	~~NA~~ 545	~~NA~~ 544	N/A	ug/g JMF 7/27/95
		2	STD				@IC-01 NO3-02	SOLID	614	614	N/A	ug/g
		2	STD				@IC-01 PO4-02	SOLID	546	516	N/A	ug/g
		2	STD				@IC-01 SO4-02	SOLID	631	618	N/A	ug/g
		2	STD				@IC-01 OXALATE2	SOLID	~~NA~~ 512	~~NA~~ 504	N/A	ug/g 7/27/95 JMF
95000059	BX-109	3	SAMPLE	S95T000996	0	W	@IC-01 F-02	SOLID	N/A	~~6.00 E+2~~ 6.00 E+2		ug/g
95000059	BX-109	3	SAMPLE	S95T000996	0	W	@IC-01 CL-02	SOLID	N/A	1.26 E+3	8.00 E+2	ug/g

Data Entry Comments:

LMCS 96N9-C .100mL - 10mL

SPIKE 96N9-C .100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1842

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T000996	0	W	@IC-01	NO2-02	SOLID	N/A	2.10 E+4	5.00 E+3	ug/g
95000059	BX-109	3 SAMPLE	S95T000996	0	W	@IC-01	NO3-02	SOLID	N/A	1.94 E+4	7.00 E+3	ug/g
95000059	BX-109	3 SAMPLE	S95T000996	0	W	@IC-01	PO4-02	SOLID	N/A	2.76 E+4	5.00 E+3	ug/g
95000059	BX-109	3 SAMPLE	S95T000996	0	W	@IC-01	SO4-02	SOLID	N/A	1.82 E+4	7.00 E+3	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	F-02	SOLID	<6.00 E+2	~~6.00~~ E+2	N/A	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	CL-02	SOLID	1.26 E+3	1.36 E+3	N/A	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	NO2-02	SOLID	2.10 E+4	2.10 E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	BR-02	SOLID	N/A E+5	N/A E+5	N/A	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	NO3-02	SOLID	1.94 E+4	1.88 E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	PO4-02	SOLID	2.76 E+4	2.66 E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	SO4-02	SOLID	1.82 E+4	1.80 E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000996	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	CL-02	SOLID	100	102.7 ~~103.8~~	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	F-02	SOLID	100	88.0 ~~88.8~~	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	NO2-02	SOLID	100	101.4 ~~102.5~~	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	BR-02	SOLID	100	~~94.0~~ ~~95.0~~	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	NO3-02	SOLID	100	103.5 ~~104.4~~	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	PO4-02	SOLID	100	93.1 ~~94.0~~	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	SO4-02	SOLID	100	96.2 ~~97.1~~	N/A	ug/g
95000059	BX-109	5 SPK	S95T000996	0	W	@IC-01	OXALATE2	SOLID	100	N/A ~~97.0~~	N/A	ug/g
95000059	BX-109	6 SAMPLE	S95T000997	0	W	@IC-01	F-02	SOLID	N/A	<6.00 ~~6.00~~ E+2	N/A	ug/g

7-25-95 <5.69 E+2

5.90 e2 JMF 7/27/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1842

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 SAMPLE	S95T000997	0	W	@IC-01 CL-02	SOLID	N/A	1.29 E+4	8.00 E+2	ug/g
95000059	BX-109	6 SAMPLE	S95T000997	0	W	@IC-01 NO2-02	SOLID	N/A	1.89 E+4	5.00 E+3	ug/g
95000059	BX-109	6 SAMPLE	S95T000997	0	W	@IC-01 NO3-02	SOLID	N/A	1.98 E+5	6.88 E+3	ug/g
95000059	BX-109	6 SAMPLE	S95T000997	0	W	@IC-01 PO4-02	SOLID	N/A	2.10 E+4	4.92 E+3	ug/g
95000059	BX-109	6 SAMPLE	S95T000997	0	W	@IC-01 SO4-02	SOLID	N/A	1.82 E+4	6.88 E+3	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 F-02	SOLID	1.29 E+4	1.31 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 CL-02	SOLID	1.89 E+4	1.96 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 NO2-02	SOLID	1.89 E+4	1.96 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 NO3-02	SOLID	1.98 E+5	1.99 E+5	N/A	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 PO4-02	SOLID	2.10 E+4	2.11 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 SO4-02	SOLID	1.82 E+4	1.86 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T000997	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	8 SAMPLE	S95T000998	0	W	@IC-01 F-02	SOLID	N/A	<5.74 E+2	5.74 E+2	ug/g
95000059	BX-109	8 SAMPLE	S95T000998	0	W	@IC-01 CL-02	SOLID	N/A	1.47 E+3	7.65 E+2	ug/g
95000059	BX-109	8 SAMPLE	S95T000998	0	W	@IC-01 NO2-02	SOLID	N/A	2.09 E+4	4.78 E+3	ug/g
95000059	BX-109	8 SAMPLE	S95T000998	0	W	@IC-01 NO3-02	SOLID	N/A	2.01 E+5	6.69 E+3	ug/g
95000059	BX-109	8 SAMPLE	S95T000998	0	W	@IC-01 PO4-02	SOLID	N/A	2.35 E+4	4.78 E+3	ug/g
95000059	BX-109	8 SAMPLE	S95T000998	0	W	@IC-01 SO4-02	SOLID	N/A	1.87 E+4	6.69 E+3	ug/g
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01 F-02	SOLID	<5.74 E+2	<5.68 E+2	N/A	ug/g
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01 CL-02	SOLID	1.47 E+3	1.34 E+3	N/A	ug/g
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01 NO2-02	SOLID	2.09 E+4	2.01 E+4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
07/18/95 09:03

LABCORE Data Entry Template for Worklist# 1842

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01	BR-02	SOLID	N/A E+5	N/A E+5	N/A	ug/g
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01	NO3-02	SOLID	2.01 E+4	2.04 E+4	N/A	ug/g
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01	PO4-02	SOLID	2.35 E+4	2.25 E+4	N/A	ug/g
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01	SO4-02	SOLID	1.87	1.83	N/A	ug/g
95000059	BX-109	9 DUP	S95T000998	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g

Final page for worklist # 1842

P.H. Cohn 7-19-95
Analyst Signature **Date**

Analyst Signature 7-26-95 **Date**

Verified 7/27/95 J.M. Luyn

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000996 & S95T000997 & S95T000998		
TEST CODE:	@IC-01	ANALYST:	E COLVIN
INSTRUMENT:	IC01	ANALYSIS DATE:	07/19/95
WORK LIST #:	1842	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	WATER DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
STD	96.6%	98.2%	97.6%	100.0%	94.5%	97.9%	95.1%	97.9%
S95T000996	<599.64	1.26E+03	2.10E+04	1.94E+05	2.76E+04	1.82E+04	<5996.44	<4997.03
S95T000996DUP	<566.62	1.36E+03	2.10E+04	1.88E+05	2.66E+04	1.80E+04	<5666.20	<4721.83
Duplicate 1 RPD	N/A	7.6%	0.3%	3.3%	3.9%	1.4%	N/A	N/A
S95T000997	<590.07	1.29E+03	1.89E+04	1.98E+05	2.10E+04	1.82E+04	<5900.68	<4917.23
S95T000997DUP	<568.69	1.31E+03	1.96E+04	1.99E+05	2.11E+04	1.86E+04	<5686.94	<4739.11
Duplicate 2 RPD	N/A	2.2%	3.8%	0.7%	0.4%	2.0%	N/A	N/A
S95T000998	<573.59	1.47E+03	2.09E+04	2.01E+05	2.35E+04	1.87E+04	<5735.92	<4779.93
S95T000998DUP	<567.73	1.34E+03	2.01E+04	2.04E+05	2.25E+04	1.83E+04	<5677.35	<4731.12
Duplicate 3 RPD	N/A	9.1%	3.8%	1.4%	4.3%	2.6%	N/A	N/A
A95T000996SPK	88.8%	103.8%	102.5%	104.4%	94.0%	97.1%	95.0%	97.0%

JMF 7/24/95
See attached sheet

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By:		Date:
Chemist Approval:		Date: 7/26/95

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000996		
TEST CODE:	@IC-01	ANALYST:	Ed Colvin
INSTRUMENT:	ic01	ANALYSIS DATE:	07/19/95
WORK LIST #:	1842	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	Water digest

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
96N9C	96.6%	98.2%	97.6%	100.0%	94.5%	97.9%	95.1%	97.9%
S95T000996	<619.63	1.26E+03	2.10E+04	1.94E+05	2.76E+04	1.82E+04	<6036.41	<5106.97
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T000996	88.0%	102.7%	101.4%	103.5%	93.1%	96.2%	94.0%	96.2%

NARRATIVE: Analyst Comments:

Chemist Comments:

Form Completed By:	Jonna Lugo	Date: 7/27/95
Chemist Approval:	Jonna Lugo	Date: 7/27/95

319

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	SOLID
Test Code:	@IC-01
Work List #:	1842
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9C
Spike Sample #:	1
Prepared By:	RW STORM
Prepared Date:	07/25/95
Chemist:	J FRYE
Analyst:	E COLVIN
Analysis Date:	07/19/96
Time Complete:	08:37 AM
Instrument Code:	IC01
Rerun:	
Sample Prep:	WATER DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	STD
SAMPLE 1	S95T000996
DUPLICATE 1	S95T000996DUP
SAMPLE 2	S95T000997
DUPLICATE 2	S95T000997DUP
SAMPLE 3	S95T000998
DUPLICATE 3	S95T000998DUP
SAMPLE 4	
DUPLICATE 4	
SPIKE	A95T000996SPK
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.06	<.08	<.5	<.7	<.5	<.7	<.6	<.5
Standard Data (µg/mL)	57	77.6	528	614	516	618	547	501
Sample 1 Data (µg/mL)	<.06	1.27E+01	2.12E+02	1.96E+03	2.79E+02	1.84E+02	<.6	<.5
Sample 1 Dilution Factor	101	101	101	101	101	101	101	101
Sample 1 Prep DF	10.106	10.106	10.106	10.106	10.106	10.106	10.106	10.106
Duplicate 1 Data (µg/mL)	<.06	1.45E+01	2.25E+02	2.01E+03	2.84E+02	1.92E+02	<.6	<.5
Duplicate 1 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 1 Prep DF	10.695	10.695	10.695	10.695	10.695	10.695	10.695	10.695
Sample 2 Data (µg/mL)	<.06	1.32E+01	1.94E+02	2.03E+03	2.16E+02	1.87E+02	<.6	<.5
Sample 2 Dilution Factor	101	101	101	101	101	101	101	101
Sample 2 Prep DF	10.27	10.27	10.27	10.27	10.27	10.27	10.27	10.27
Duplicate 2 Data (µg/mL)	<.06	1.40E+01	2.09E+02	2.13E+03	2.25E+02	1.98E+02	<.6	<.5
Duplicate 2 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 2 Prep DF	10.656	10.656	10.656	10.656	10.656	10.656	10.656	10.656
Sample 3 Data (µg/mL)	<.06	1.55E+01	2.21E+02	2.12E+03	2.48E+02	1.98E+02	<.6	<.5
Sample 3 Dilution Factor	101	101	101	101	101	101	101	101
Sample 3 Prep DF	10.565	10.565	10.565	10.565	10.565	10.565	10.565	10.565
Duplicate 3 Data (µg/mL)	<.06	1.43E+01	2.15E+02	2.17E+03	2.40E+02	1.95E+02	<.6	<.5
Duplicate 3 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 3 Prep DF	10.674	10.674	10.674	10.674	10.674	10.674	10.674	10.674
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.19E+01	9.39E+01	7.61E+02	2.60E+03	7.87E+02	7.91E+02	5.41E+02	4.92E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20
Std. Conc. (µg/mL)	59	79	541	614	546	631	575	512
Detection Limit	0.060	0.080	0.500	0.700	0.500	0.700	0.600	0.500
Matrix Detection Limit 1	6.00E+02	8.00E+02	5.00E+03	7.00E+03	5.00E+03	7.00E+03	6.00E+03	5.00E+03
Matrix Detection Limit 2	5.90E+02	7.87E+02	4.92E+03	6.88E+03	4.92E+03	6.88E+03	5.90E+03	4.92E+03
Matrix Detection Limit 3	5.74E+02	7.65E+02	4.78E+03	6.69E+03	4.78E+03	6.69E+03	5.74E+03	4.78E+03
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	96.6%	98.2%	97.6%	100.0%	94.5%	97.9%	95.1%	97.9%
Sample 1 in µg/g	<590.84	1.28E+03	2.10E+04	1.94E+05	2.76E+04	1.82E+04	<5906.44	<4997.03
Duplicate 1 in µg/g	<566.62	1.36E+03	2.10E+04	1.88E+05	2.66E+04	1.80E+04	<5666.20	<4721.83
Duplicate 1 RPD	N/A	7.6%	0.3%	3.3%	3.9%	1.4%	N/A	N/A
Sample 2 in µg/g	<590.07	1.29E+03	1.89E+04	1.98E+05	2.10E+04	1.82E+04	<5900.68	<4917.23
Duplicate 2 in µg/g	<568.69	1.31E+03	1.96E+04	1.99E+05	2.11E+04	1.86E+04	<5686.94	<4739.11
Duplicate 2 RPD	N/A	2.2%	3.8%	0.7%	0.4%	2.0%	N/A	N/A
Sample 3 in µg/g	<573.59	1.47E+03	2.09E+04	2.01E+05	2.35E+04	1.87E+04	<5738.92	<4779.93
Duplicate 3 in µg/g	<567.73	1.34E+03	2.01E+04	2.04E+05	2.26E+04	1.83E+04	<5677.35	<4731.12
Duplicate 3 RPD	N/A	9.1%	3.8%	1.4%	4.3%	2.6%	N/A	N/A
Spike % Recovery	86.8%	103.8%	102.6%	104.4%	94.8%	97.4%	95.0%	97.0%

Data Entry by: [signature] Date: 07/25/95

Approved by: [signature] Date: 7/26/95

Form DIONEX.WB1 Rev. 1.3

320

LAB LEADER INFO	
Method:	LA-533-106c-2
Matrix:	solid
Test Code:	@IC-01
Work List #:	1942
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9C
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	07/27/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	07/19/95
Time Complete:	09:37 AM
Instrument Code:	ic01
Rerun:	
Sample Prep:	Water digest
Sample Point:	BX-109
Sample Type	
STANDARD	96N9C
SAMPLE 1	S95T000996
DUPLICATE 1	
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000996
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.532	<.703	<.572	<.697	<.604	<.511
Standard Data (µg/mL)	57	77.6	529	614	516	618	547	501
Sample 1 Data (µg/mL)	<.062	1.27E+01	2.12E+02	1.96E+03	2.79E+02	1.84E+02	<.604	<.511
Sample 1 Dilution Factor	101	101	101	101	101	101	101	101
Sample 1 Prep DF	10.106	10.106	10.106	10.106	10.106	10.106	10.106	10.106
Duplicate 1 Data (µg/mL)								
Duplicate 1 Dilution Factor								
Duplicate 1 Prep DF								
Sample 2 Data (µg/mL)								
Sample 2 Dilution Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Dilution Factor								
Duplicate 2 Prep DF								
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.19E+01	9.39E+01	7.81E+02	2.60E+03	7.87E+02	7.91E+02	6.41E+02	4.92E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	59	79	541	614	546	631	575	512
Detection Limit	0.062	0.083	0.532	0.703	0.572	0.697	0.604	0.511
Matrix Detection Limit 1	6.20E+02	8.30E+02	5.32E+03	7.03E+03	5.72E+03	6.97E+03	6.04E+03	5.11E+03
Matrix Detection Limit 2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	96.6%	98.2%	97.6%	100.0%	94.5%	97.9%	95.1%	97.9%
Sample 1 in µg/g	<619.83	1.26E+03	2.10E+04	1.94E+05	2.76E+04	1.82E+04	<6036.41	<5106.97
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Spike % Recovery	88.0%	102.7%	101.4%	103.5%	93.1%	96.2%	94.0%	96.2%

Data Entry by: Jann Frye Date: 07/27/95
Approved by: Jann Frye Date: 7/27/95
Form DIONEX.WB1 Rev. 1.3

321

Sample Name: INSTR BLANK
Data File : C:\DX\DATA\95071901.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst : Column:

Date: 07/19/1995 06:20:56

WHC-SD-WM-DP-154, REV. 0
Detector: CDM-1

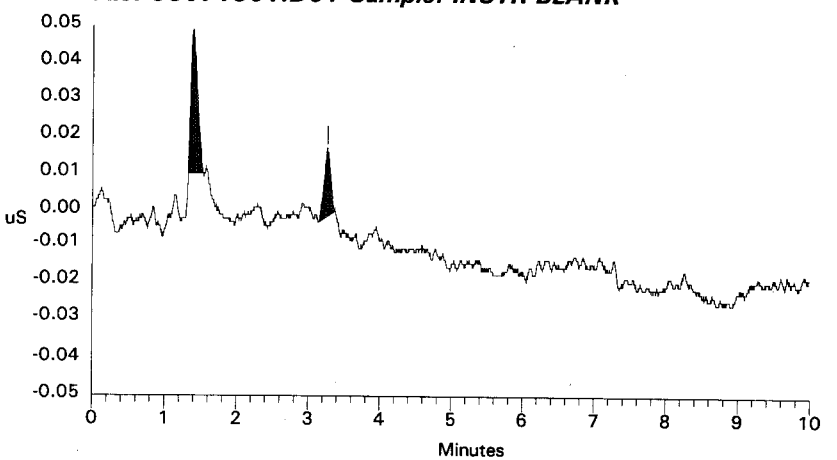
Jan Lyle 3/4/96
for Ed Colvin

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.38		0.000	39	249	1	
		Totals	0.000	39	249		

File: 95071901.D01 Sample: INSTR BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 322 TO 331.

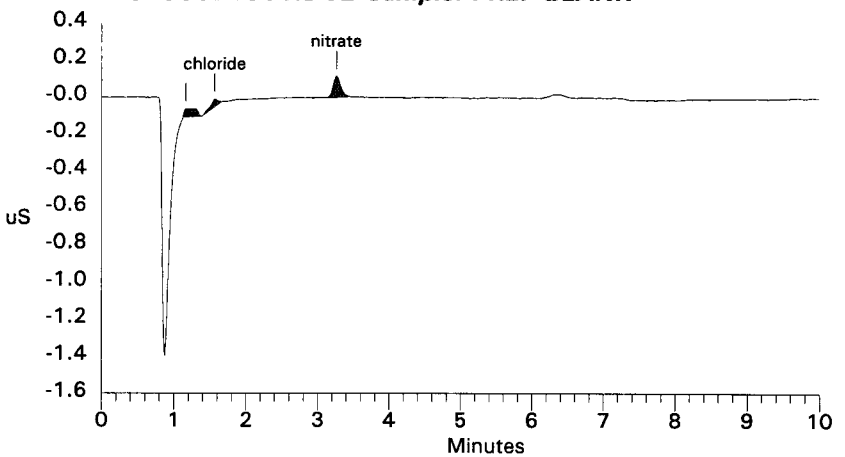
Sample Name: PREP BLANK Date: 07/19/1995 06:32:28
Data File : C:\DX\DATA\95071901.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.16		0.000	45	519	1	
2	1.56	chloride	0.029	44	318	1	1.96
3	3.26	nitrate	0.415	113	825	1	1.88
		Totals	0.444	202	1663		

File: 95071901.D02 Sample: PREP BLANK



Sample Name: 96N9-C STD
Data File : C:\DX\DATA\95071901.D03
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3
Analyst : P.M. Ch 7/19/95
Column:

Date: 07/19/1995 06:55:13

WHC-SD-WM-DP-154, REV. 0

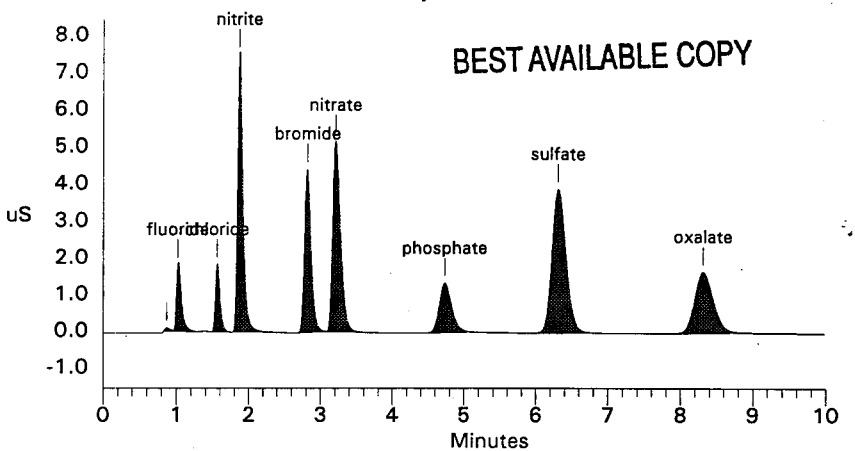
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	88	396	2	
2	1.02	fluoride	56.972	1820	9109	2	0.99
3	1.56	chloride	77.613	1846	8563	1	1.96
4	1.87	nitrite	527.849	7517	40647	1	1.08
5	2.82	bromide	546.636	4425	28511	1	0.71
6	3.21	nitrate	614.074	5190	40017	1	0.31
7	4.73	phosphate	515.623	1342	16656	1	-1.46
8	6.31	sulfate	617.686	3895	53681	1	-3.37
9	8.31	oxalate	500.951	1666	30241	1	-3.37
		Totals	3457.405	27788	227822		

File: 95071901.D03 Sample: 96N9-C STD



Sample Name: S95T000996
Data File : C:\DX\DATA\95071901.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column:

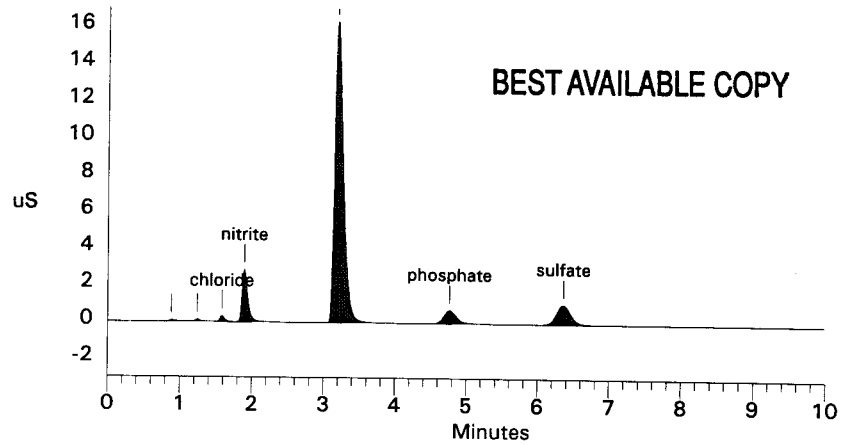
Date: 07/19/1995 07:09:40
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	57	274	1	
2	1.24		0.000	106	414	1	
3	1.58	chloride	12.741	306	1394	1	3.27
4	1.89	nitrite	212.451	2812	15237	1	2.16
5	3.18	nitrate	1960.553	16261	136077	1	-0.62
6	4.76	phosphate	278.715	703	8497	1	-0.83
7	6.36	sulfate	184.295	1059	14610	1	-2.60
		Totals	2648.755	21304	176502		

File: 95071901.D04 Sample: S95T000996



Sample Name: S95T000996 DUP
Data File : C:\DX\DATA\95071901.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst : Column:

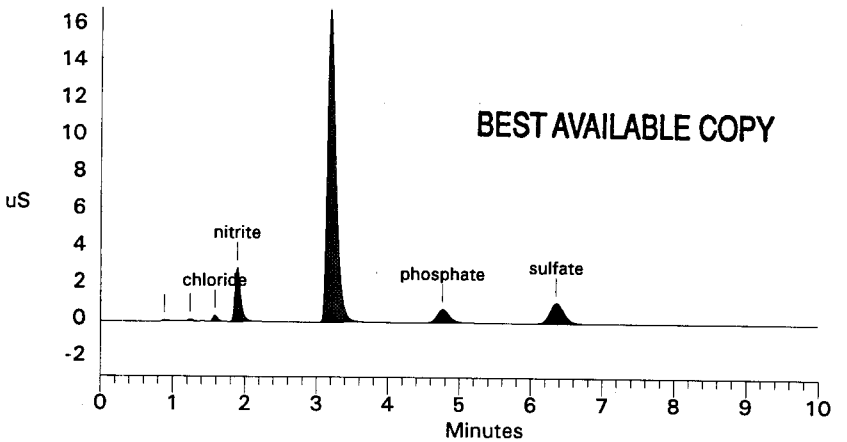
Date: 07/19/1995 07:27:14
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	64	315	1	
2	1.24		0.000	106	412	1	
3	1.58	chloride	14.481	339	1585	1	3.27
4	1.89	nitrite	224.572	2904	16213	1	2.16
5	3.18	nitrate	2007.325	16923	139519	1	-0.62
6	4.76	phosphate	284.460	724	8693	1	-0.83
7	6.35	sulfate	191.923	1103	15291	1	-2.76
		Totals	2722.761	22163	182027		

File: 95071901.D05 Sample: S95T000996 DUP



BEST AVAILABLE COPY

Sample Name: S95T000996 + SPIKE
Data File : C:\DX\DATA\95071901.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst : Column:

Date: 07/19/1995 07:42:15

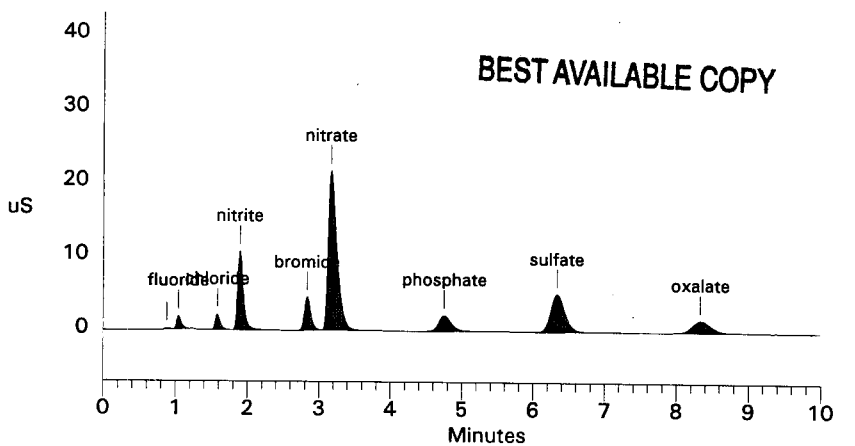
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	139	599	1	
2	1.04	fluoride	51.932	1807	8270	1	2.97
3	1.58	chloride	93.943	2149	10383	1	3.27
4	1.89	nitrite	761.233	10771	59474	1	2.16
5	2.83	bromide	540.615	4485	28175	1	1.07
6	3.16	nitrate	2595.846	21550	183492	1	-1.25
7	4.75	phosphate	787.246	2147	26146	1	-1.04
8	6.33	sulfate	791.142	5080	69561	1	-3.06
9	8.33	oxalate	492.328	1650	29694	1	-3.14
		Totals	6114.285	49777	415794		

File: 95071901.D06 Sample: S95T000996 + SPIKE



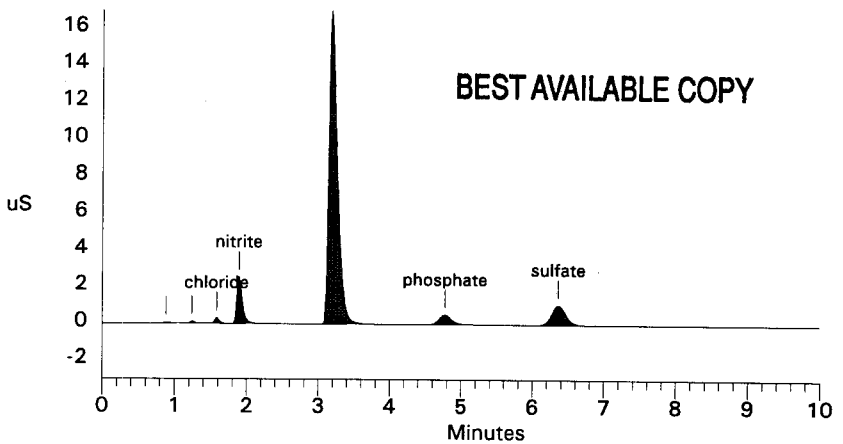
Sample Name: S95T000997 Date: 07/19/1995 07:53:06
Data File : C:\DX\DATA\95071901.D07
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-154, REV. 0
ACI Address: 1 System: 1 Inject#: 7 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	65	313	1	
2	1.24		0.000	110	430	1	
3	1.58	chloride	13.169	311	1441	1	3.27
4	1.89	nitrite	193.870	2539	13741	1	2.16
5	3.17	nitrate	2033.531	16647	141451	1	-0.94
6	4.77	phosphate	216.435	528	6369	1	-0.63
7	6.36	sulfate	186.978	1079	14849	1	-2.60
		Totals	2643.982	21278	178595		

File: 95071901.D07 Sample: S95T000997



Sample Name: S95T000997 DUP
Data File : C:\DX\DATA\95071901.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst : Column:

Date: 07/19/1995 08:07:32

WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

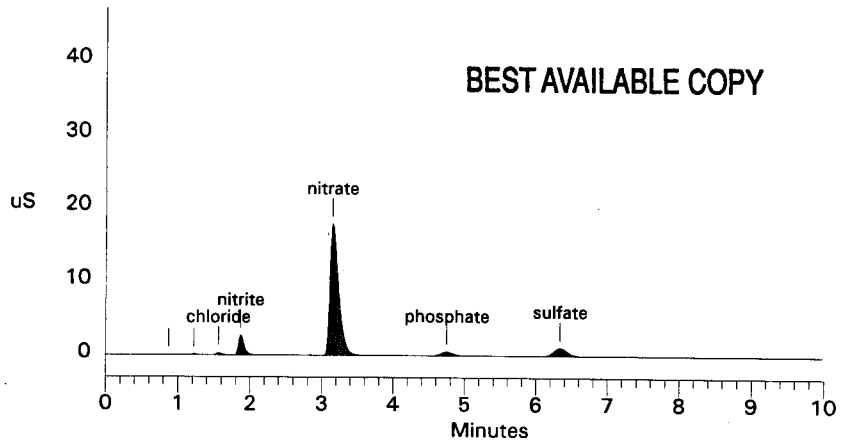
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	64	296	1	
2	1.22		0.000	109	463	1	
3	1.56	chloride	13.962	321	1528	1	1.96
4	1.87	nitrite	208.518	2670	14921	1	1.08
5	3.15	nitrate	2124.853	17767	148202	1	-1.56
6	4.75	phosphate	225.173	550	6667	1	-1.04
7	6.34	sulfate	198.342	1144	15863	1	-2.91
		Totals	2770.848	22625	187939		

File: 95071901.D08 Sample: S95T000997 DUP

BEST AVAILABLE COPY



Sample Name: S95T000998 Date: 07/19/1995 08:24:43
Data File : C:\DX\DATA\95071901.D09 WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9 Detector:CDM-1
Analyst : Column:

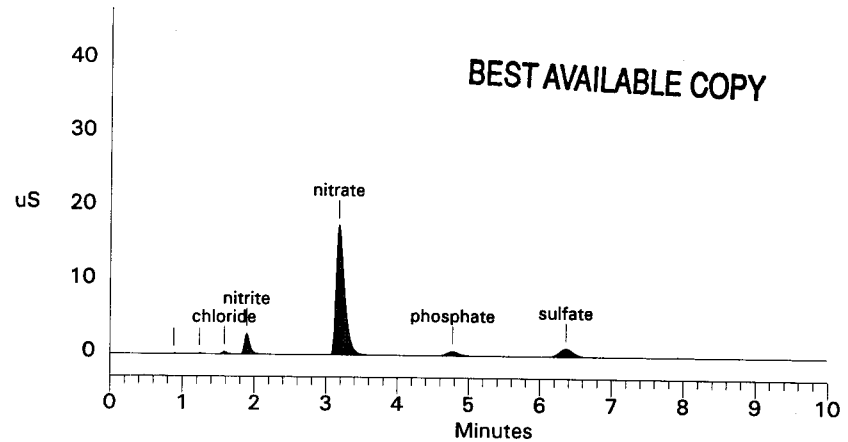
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	62	298	1	
2	1.24		0.000	115	454	1	
3	1.58	chloride	15.527	351	1699	1	3.27
4	1.89	nitrite	221.057	2857	15930	1	2.16
5	3.17	nitrate	2120.169	17542	147855	1	-0.94
6	4.77	phosphate	247.643	619	7434	1	-0.63
7	6.36	sulfate	197.509	1143	15789	1	-2.60
		Totals	2801.904	22689	189460		

File: 95071901.D09 Sample: S95T000998

BEST AVAILABLE COPY



Sample Name: S95T000998 DUP
Data File : C:\DX\DATA\95071901.D10
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10
Analyst : Column:

Date: 07/19/1995 08:37:09
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

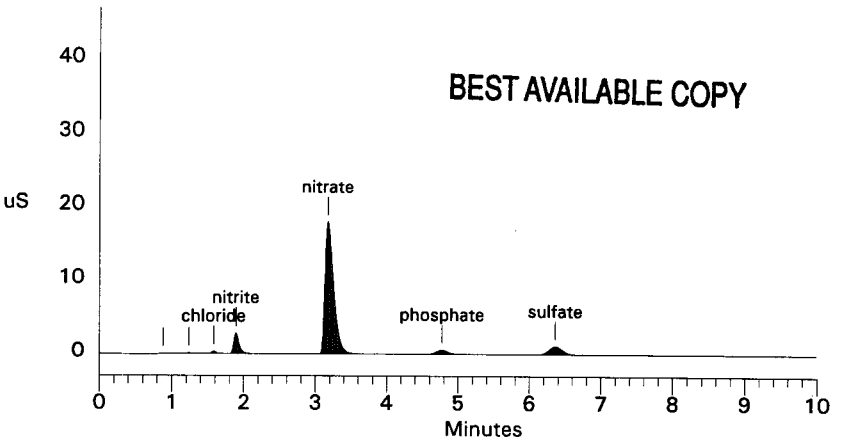
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	66	324	1	
2	1.24		0.000	112	430	1	
3	1.58	chloride	14.261	341	1560	1	3.27
4	1.89	nitrite	214.871	2826	15432	1	2.16
5	3.17	nitrate	2173.206	17865	151788	1	-0.94
6	4.77	phosphate	239.528	591	7157	1	-0.63
7	6.36	sulfate	194.929	1137	15559	1	-2.60
		Totals	2836.794	22940	192250		

File: 95071901.D10 Sample: S95T000998 DUP

BEST AVAILABLE COPY



LABCORE Completed Worklist Report for Worklist# 1843

Analyst: ehc **Instrument:** IC01 **Book#** 96W9C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 IC, examine sample for nonhomogeniety. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	BLNK-PREP		0		@IC-01	F-02	SOLID	1	<.062	ug/g
1	BLNK-PREP		0		@IC-01	CL-02	SOLID	1	<.083	ug/g
1	BLNK-PREP		0		@IC-01	NO2-02	SOLID	1	<.532	ug/g
1	BLNK-PREP		0		@IC-01	BR-02	SOLID	1	<.604	ug/g
1	BLNK-PREP		0		@IC-01	NO3-02	SOLID	1	<.703	ug/g
1	BLNK-PREP		0		@IC-01	PO4-02	SOLID	1	<.572	ug/g
1	BLNK-PREP		0		@IC-01	SO4-02	SOLID	1	<.697	ug/g
1	BLNK-PREP		0		@IC-01	OXALATE2	SOLID	1	n/a	ug/g
2	STD		0		@IC-01	F-02	SOLID	59	58.35	98.900 % Recovery
2	STD		0		@IC-01	CL-02	SOLID	79	82.43	104.340 % Recovery
2	STD		0		@IC-01	NO2-02	SOLID	541	557.5	103.050 % Recovery
2	STD		0		@IC-01	BR-02	SOLID	575	569.3	99.010 % Recovery
2	STD		0		@IC-01	NO3-02	SOLID	614	611.4	99.580 % Recovery
2	STD		0		@IC-01	PO4-02	SOLID	546	515.1	94.340 % Recovery
2	STD		0		@IC-01	SO4-02	SOLID	631	626.4	99.270 % Recovery
2	STD		0		@IC-01	OXALATE2	SOLID	512	n/a	% Recovery
3	SAMPLE	S95T000999	0	W	@IC-01	F-02	SOLID	N/A <	5.88e2	588.000 ug/g
3	SAMPLE	S95T000999	0	W	@IC-01	CL-02	SOLID	N/A	1.39e3	788.000 ug/g
3	SAMPLE	S95T000999	0	W	@IC-01	NO2-02	SOLID	N/A	2.01e4	5.050e+004 ug/g
3	SAMPLE	S95T000999	0	W	@IC-01	NO3-02	SOLID	N/A	2.03e5	6.680e+003 ug/g
3	SAMPLE	S95T000999	0	W	@IC-01	PO4-02	SOLID	N/A	2.19e4	5.430e+003 ug/g
3	SAMPLE	S95T000999	0	W	@IC-01	SO4-02	SOLID	N/A	1.86e4	6.620e+003 ug/g
4	DUP	S95T000999	0	W	@IC-01	F-02	SOLID	<5.88e2	<5.67e2	RPD
4	DUP	S95T000999	0	W	@IC-01	CL-02	SOLID	1.39e3	1.25e3	10.610 RPD
4	DUP	S95T000999	0	W	@IC-01	NO2-02	SOLID	2.01e4	1.94e4	3.540 RPD
4	DUP	S95T000999	0	W	@IC-01	BR-02	SOLID	<5.74e3	<5.53e3	RPD
4	DUP	S95T000999	0	W	@IC-01	NO3-02	SOLID	2.03e5	1.99e5	1.990 RPD
4	DUP	S95T000999	0	W	@IC-01	PO4-02	SOLID	2.19e4	2.20e4	0.460 RPD
4	DUP	S95T000999	0	W	@IC-01	SO4-02	SOLID	1.86e4	1.81e4	2.720 RPD
4	DUP	S95T000999	0	W	@IC-01	OXALATE2	SOLID	n/a	n/a	RPD
5	SPK	S95T000999	0	W	@IC-01	CL-02	SOLID	100	95.4	95.400 % Recovery
5	SPK	S95T000999	0	W	@IC-01	F-02	SOLID	100	96.0	96.000 % Recovery
5	SPK	S95T000999	0	W	@IC-01	NO2-02	SOLID	100	94.8	94.800 % Recovery
5	SPK	S95T000999	0	W	@IC-01	BR-02	SOLID	100	92.3	92.300 % Recovery
5	SPK	S95T000999	0	W	@IC-01	NO3-02	SOLID	100	101.7	101.700 % Recovery
5	SPK	S95T000999	0	W	@IC-01	PO4-02	SOLID	100	88.8	88.800 % Recovery
5	SPK	S95T000999	0	W	@IC-01	SO4-02	SOLID	100	93.5	93.500 % Recovery
5	SPK	S95T000999	0	W	@IC-01	OXALATE2	SOLID	100	n/a	% Recovery
6	SAMPLE	S95T001000	0	W	@IC-01	F-02	SOLID	N/A <	1.36e2	136.000 ug/g
6	SAMPLE	S95T001000	0	W	@IC-01	CL-02	SOLID	N/A	1.17e3	182.000 ug/g
6	SAMPLE	S95T001000	0	W	@IC-01	NO2-02	SOLID	N/A	1.73e4	1.170e+003 ug/g

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 1843

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SAMPLE	S95T001000	0	W	@IC-01	NO3-02	SOLID	N/A	1.85e5	7.410e+003 ug/g
6	SAMPLE	S95T001000	0	W	@IC-01	PO4-02	SOLID	N/A	1.76e4	1.250e+003 ug/g
6	SAMPLE	S95T001000	0	W	@IC-01	SO4-02	SOLID	N/A	1.67e4	6.620e+003 ug/g
7	DUP	S95T001000	0	W	@IC-01	F-02	SOLID	<1.36e2	<1.34e2	RPD
7	DUP	S95T001000	0	W	@IC-01	CL-02	SOLID	1.17e3	1.18e3	0.850 RPD
7	DUP	S95T001000	0	W	@IC-01	NO2-02	SOLID	1.73e4	1.72e4	0.580 RPD
7	DUP	S95T001000	0	W	@IC-01	BR-02	SOLID	2.44e3	2.40e3	1.650 RPD
7	DUP	S95T001000	0	W	@IC-01	NO3-02	SOLID	1.85e5	1.85e5	0.000 RPD
7	DUP	S95T001000	0	W	@IC-01	PO4-02	SOLID	1.76e4	1.75e4	0.570 RPD
7	DUP	S95T001000	0	W	@IC-01	SO4-02	SOLID	1.67e4	1.62e4	3.040 RPD
7	DUP	S95T001000	0	W	@IC-01	OXALATE2	SOLID	n/a	n/a	RPD

Comments Section:

Comments for sample# S95T000999 **and test** @IC-01 .
LMCS std 96N9C .100 ml - 10 ml.
Spike 96N9C .100 ml.

Comments for sample# S95T001000 **and test** @IC-01 .
LMCS std 96N9C .100 ml - 10 ml.
Sample S95T001000 Dup has a precititate present.
Spike 96N9C .100 ml.
Presence of Br indicates possible HHF contamination. JMF

Final page for worklist# 1843

See Attached original for Signatures

Analyst Signature **Date**

Analyst Signature **Date**

Reviewer Signature 7/26/95 **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

worklistrpt Version 2.1 05/15/95
07/18/95 09:04

LABCORE Data Entry Template for Worklist# 1843

Analyst: EC **Instrument:** IC01 **Book #** 96N9-C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 IC, examine sample for nonhomogeniety. JMF

gmF 7/25/95

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP			@IC-01	F-02	SOLID	1	<.062	N/A	ug/g
		1	BLNK-PREP			@IC-01	CL-02	SOLID	1	<.083	N/A	ug/g
		1	BLNK-PREP			@IC-01	NO2-02	SOLID	1	<.532	N/A	ug/g
		1	BLNK-PREP			@IC-01	BR-02	SOLID	1	<.604	N/A	ug/g
		1	BLNK-PREP			@IC-01	NO3-02	SOLID	1	<.703	N/A	ug/g
		1	BLNK-PREP			@IC-01	PO4-02	SOLID	1	<.572	N/A	ug/g
		1	BLNK-PREP			@IC-01	SO4-02	SOLID	1	<.7697	N/A	ug/g
		1	BLNK-PREP			@IC-01	OXALATE2	SOLID	1	<.571	N/A	ug/g
		2	STD			@IC-01	F-02	SOLID	59.0	58.4	N/A	ug/g
		2	STD			@IC-01	CL-02	SOLID	79.0	82.4	N/A	ug/g
		2	STD			@IC-01	NO2-02	SOLID	541	558	N/A	ug/g
		2	STD			@IC-01	BR-02	SOLID	575	569	N/A	ug/g
		2	STD			@IC-01	NO3-02	SOLID	614	611	N/A	ug/g
		2	STD			@IC-01	PO4-02	SOLID	546	515	N/A	ug/g
		2	STD			@IC-01	SO4-02	SOLID	631	626	N/A	ug/g
		2	STD			@IC-01	OXALATE2	SOLID	512	510	N/A	ug/g
95000059	BX-109	3	SAMPLE	S95T000999	0	W @IC-01	F-02	SOLID	N/A	68.70	E+2	ug/g
95000059	BX-109	3	SAMPLE	S95T000999	0	W @IC-01	CL-02	SOLID	N/A	1.39 E+3	7.60 E+2	ug/g

gmF 7/25/95 gmF 7/25/95 gmF 7/25/95 gmF 7/25/95

See attached copy for results.

Data Entry Comments:

LMCS 96N9-C .100ML - 10ML

SPIKE 96N9-C .100 ML

SAMPLE S95T001000 DUP HAS PERCIPITATE PRESENT.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1843

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T000999	0	W	@IC-01 NO2-02	SOLID	N/A	2.01 E+4	6.05 E+3	ug/g
95000059	BX-109	3 SAMPLE	S95T000999	0	W	@IC-01 NO3-02	SOLID	N/A	2.03 E+5	6.6 E+3	ug/g
95000059	BX-109	3 SAMPLE	S95T000999	0	W	@IC-01 PO4-02	SOLID	N/A	2.19 E+4	5.48 E+3	ug/g
95000059	BX-109	3 SAMPLE	S95T000999	0	W	@IC-01 SO4-02	SOLID	N/A	1.86 E+4	6.6 E+3	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 F-02	SOLID	<5.70	<5.49	N/A	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 CL-02	SOLID	1.39 E+3	1.25 E+3	N/A	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 NO2-02	SOLID	2.01 E+4	1.94 E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 BR-02	SOLID	<5.70 N/A E+3	N/A 3.11 E+3	N/A	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 NO3-02	SOLID	2.03 E+4	1.99 E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 PO4-02	SOLID	2.19 E+4	2.20 E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 SO4-02	SOLID	1.86 E+4	E+4	N/A	ug/g
95000059	BX-109	4 DUP	S95T000999	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 CL-02	SOLID	100	96.4	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 F-02	SOLID	100	97.1	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 NO2-02	SOLID	100	95.8	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 BR-02	SOLID	100	93.3	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 NO3-02	SOLID	100	102.8	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 PO4-02	SOLID	100	89.7	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 SO4-02	SOLID	100	94.4	N/A	ug/g
95000059	BX-109	5 SPK	S95T000999	0	W	@IC-01 OXALATE2	SOLID	100	97.6	N/A	ug/g
95000059	BX-109	6 SAMPLE	S95T001000	0	W	@IC-01 F-02	SOLID	N/A	1.10 E+2	1.32 E+2	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
07/18/95 09:04

LABCORE Data Entry Template for Worklist# 1843

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 SAMPLE	S95T001000	0	W	@IC-01 CL-02	SOLID	N/A	1.18 E+3	1.75 E+2	ug/g
95000059	BX-109	6 SAMPLE	S95T001000	0	W	@IC-01 NO2-02	SOLID	N/A	1.72 E+4	1.10 E+3	ug/g
95000059	BX-109	6 SAMPLE	S95T001000	0	W	@IC-01 NO3-02	SOLID	N/A	1.82 E+5	1.53 E+3	ug/g
95000059	BX-109	6 SAMPLE	S95T001000	0	W	@IC-01 PO4-02	SOLID	N/A	1.76 E+4	1.10 E+3	ug/g
95000059	BX-109	6 SAMPLE	S95T001000	0	W	@IC-01 SO4-02	SOLID	N/A	1.67 E+4	1.53 E+3	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 F-02	SOLID	1.10 E+2	1.07 E+2	N/A	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 CL-02	SOLID	1.18 E+3	1.18 E+3	N/A	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 NO2-02	SOLID	1.72 E+4	1.75 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 NO3-02	SOLID	1.82 E+5	1.78 E+5	N/A	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 PO4-02	SOLID	1.76 E+4	1.75 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 SO6-02	SOLID	1.67 E+4	1.62 E+4	N/A	ug/g
95000059	BX-109	7 DUP	S95T001000	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g

Final page for worklist # 1843

P.W. Cole 7-20-95
Analyst Signature **Date**

Analyst Signature 7-25-95 **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000999 & S95T001000		
TEST CODE:	@ic-01	ANALYST:	Ed Colvin
INSTRUMENT:	ic01(4000i)	ANALYSIS DATE:	07/20/95
WORK LIST #:	1843	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	water digest

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
96N9C	98.9%	104.3%	103.0%	99.6%	94.3%	99.3%	99.0%	99.6%
S95T000999	<588.81	1.39E+03	2.01E+04	2.03E+05	2.19E+04	1.86E+04	<5736.15	<4852.94
S95T000999dup	<567.62	1.25E+03	1.94E+04	1.99E+05	2.20E+04	1.81E+04	<5529.73	<4678.30
Duplicate 1 RPD	N/A	10.9%	3.9%	2.0%	0.3%	2.7%	N/A	N/A
S95T001000	<135.95	1.17E+03	1.73E+04	1.85E+05	1.76E+04	1.67E+04	2.44E+03	<1120.50
S95T001000dup	<133.76	1.18E+03	1.72E+04	1.85E+05	1.75E+04	1.62E+04	2.40E+03	<1102.42
Duplicate 2 RPD	N/A	0.7%	0.2%	0.0%	0.6%	2.7%	1.5%	N/A
S95T000999spk	96.0%	95.4%	94.8%	101.7%	88.8%	93.5%	92.3%	96.6%

NARRATIVE: Analyst Comments:

Chemist Comments:

Form Completed By:	Dana Fuge	Date: 7/25/95
Chemist Approval:	Dana Fuge	Date: 7/25/95

LAB LEADER INFO	
Method:	ie-633-106 c-2
Matrix:	solid
Test Code:	@ic-01
Work List #:	1843
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9C
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	07/25/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	07/20/95
Time Complete:	10:49 AM
Instrument Code:	ic01(4000)
Rerun:	0
Sample Prep:	water digest
Sample Point:	BX-109
Sample Type	
STANDARD	96N9C
SAMPLE 1	S95T000999
DUPLICATE 1	S95T000999dup
SAMPLE 2	S95T001000
DUPLICATE 2	S95T001000dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000999spk
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.532	<.703	<.572	<.697	<.804	<.511
Standard Data (µg/mL)	88.36	92.43	667.6	911.4	618.1	829.4	668.3	509.9
Sample 1 Data (µg/mL)	<.062	1.48E+01	2.14E+02	2.16E+03	2.33E+02	1.98E+02	<.804	<.511
Sample 1 Dilution Factor	101	101	101	101	101	101	101	101
Sample 1 Prep DF	10.636	10.636	10.636	10.636	10.636	10.636	10.636	10.636
Duplicate 1 Data (µg/mL)	<.062	1.38E+01	2.14E+02	2.19E+03	2.43E+02	1.99E+02	<.062	<.511
Duplicate 1 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 1 Prep DF	11.032	11.032	11.032	11.032	11.032	11.032	11.032	11.032
Sample 2 Data (µg/mL)	<.062	1.13E+01	1.65E+02	1.77E+03	1.69E+02	1.60E+02	2.34E+01	<.511
Sample 2 Dilution Factor	21	21	21	101	21	21	21	21
Sample 2 Prep DF	9.677	9.677	9.677	9.677	9.677	9.677	9.677	9.677
Duplicate 2 Data (µg/mL)	<.062	1.16E+01	1.68E+02	1.80E+03	1.70E+02	1.59E+02	2.34E+01	<.511
Duplicate 2 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 2 Prep DF	9.734	9.734	9.734	9.734	9.734	9.734	9.734	9.734
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.67E+01	9.02E+01	7.27E+02	2.78E+03	7.19E+02	7.88E+02	5.31E+02	4.95E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	59	79	641	614	546	631	575	512
Detection Limit	0.062	0.083	0.532	0.703	0.572	0.697	0.804	0.511
Matrix Detection Limit 1	5.99E+02	7.98E+02	5.05E+03	6.68E+03	5.43E+03	6.62E+03	5.74E+03	4.95E+03
Matrix Detection Limit 2	1.36E+02	1.82E+02	1.17E+03	7.41E+03	1.25E+03	1.53E+03	1.32E+03	1.12E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	99.9%	104.3%	103.0%	99.6%	84.3%	99.3%	99.0%	99.6%
Sample 1 in µg/g	<586.81	1.39E+03	2.01E+04	2.03E+05	2.19E+04	1.86E+04	<5736.15	<4852.94
Duplicate 1 in µg/g	<587.62	1.25E+03	1.84E+04	1.99E+05	2.20E+04	1.81E+04	<5529.73	<4678.30
Duplicate 1 RPD	N/A	10.9%	3.9%	2.0%	0.3%	2.7%	N/A	N/A
Sample 2 in µg/g	<135.95	1.17E+03	1.73E+04	1.85E+05	1.78E+04	1.67E+04	2.44E+03	<1120.50
Duplicate 2 in µg/g	<133.76	1.18E+03	1.72E+04	1.86E+05	1.75E+04	1.62E+04	2.40E+03	<1102.42
Duplicate 2 RPD	N/A	0.7%	0.2%	0.0%	0.8%	2.7%	1.6%	N/A
Spike % Recovery	96.0%	96.4%	94.8%	101.7%	89.8%	93.5%	92.3%	96.6%

Data Entry by: Jann Frye Date: 07/25/95
Approved by: Jann Frye Date: 7/25/95
Form DIONEX.WB1 Rev. 1.3

Sample Name: INSTR BLANK
Data File : C:\DX\DATA\95072001.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst : Column:

Date: 07/20/1995 07:57:16
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

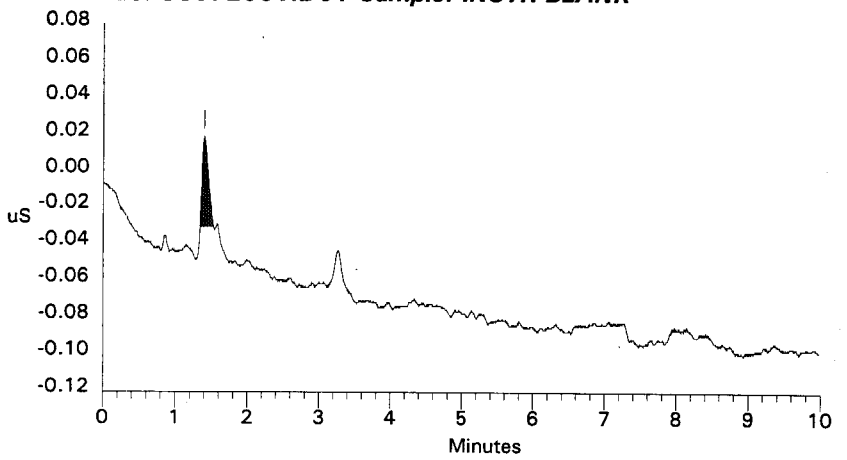
Jason Luy for Ed Colvin 8/4/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.40		0.000	49	289	1	
		Totals	0.000	49	289		

File: 95072001.D01 Sample: INSTR BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 339 TO 344.

Sample Name: PREP BLANK
Data File : C:\DX\DATA\95072001.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Column:

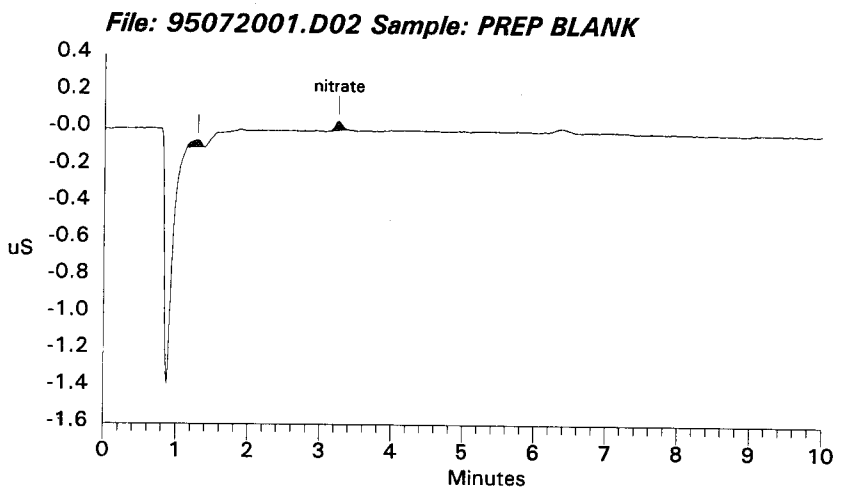
Date: 07/20/1995 08:08:09
WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.29		0.000	36	348	1	
2	3.25	nitrate	0.343	49	338	1	1.56
		Totals	0.343	85	686		



Sample Name: 96N9-C STD
Data File : C:\DX\DATA\95072001.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst : Column:

Date: 07/20/1995 08:45:32
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

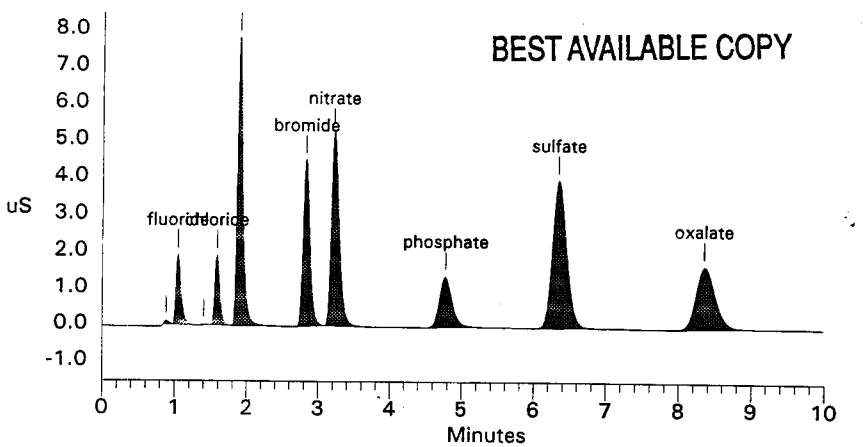
7/20/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	92	409	2	
2	1.04	fluoride	58.357	1899	9340	2	2.97
4	1.58	chloride	82.438	1914	9100	1	3.27
5	1.89	nitrite	557.509	7815	43038	1	2.16
6	2.82	bromide	569.393	4492	29782	1	0.71
7	3.21	nitrate	611.456	5219	39835	1	0.31
8	4.77	phosphate	515.115	1377	16638	1	-0.63
9	6.34	sulfate	626.497	3989	54485	1	-2.91
10	8.35	oxalate	509.803	1692	30802	1	-2.91
		Totals	3530.568	28488	233431		

File: 95072001.D05 Sample: 96N9-C STD



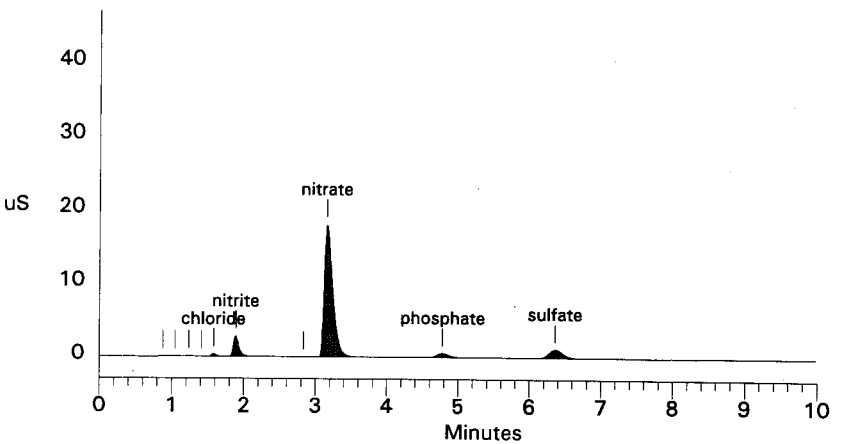
Sample Name: S95T000999 Date: 07/20/1995 08:56:28
Data File : C:\DX\DATA\95072001.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	65	302	2	
3	1.24		0.000	120	463	2	
5	1.58	chloride	14.808	353	1620	1	3.27
6	1.89	nitrite	213.989	2799	15361	1	2.16
8	3.16	nitrate	2156.811	17987	150571	1	-1.25
9	4.78	phosphate	233.136	580	6939	1	-0.42
10	6.36	sulfate	197.594	1151	15797	1	-2.60
		Totals	2816.337	23054	191053		

File: 95072001.D06 Sample: S95T000999



```
Sample Name: S95T000999 DUP                    Date: 07/20/1995 09:44:31
Data File  : C:\DX\DATA\95072001.D07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 7          Detector:CDM-1
Analyst    :               Column:
```

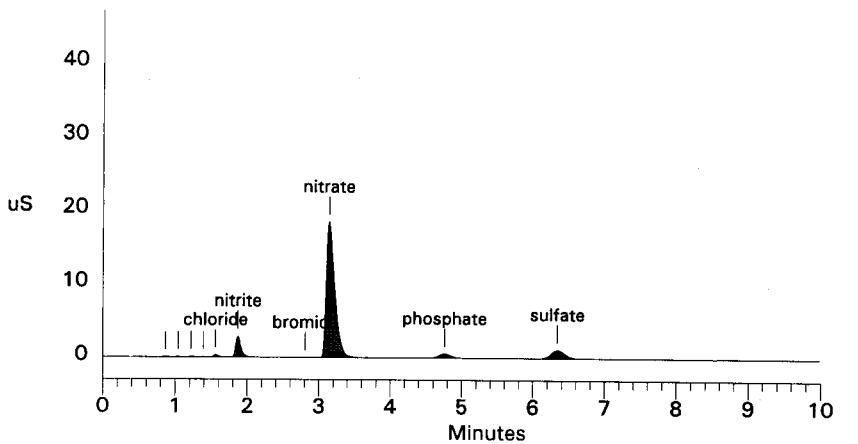
WHC-SD-WM-DP-154, REV. 0

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	74	345	2	
3	1.22		0.000	119	474	1	
5	1.56	chloride	13.760	340	1505	1	1.96
6	1.87	nitrite	213.588	2892	15329	1	1.08
7	2.81	bromide	34.315	33	201	1	0.36
8	3.14	nitrate	2193.188	18410	153272	1	-1.87
9	4.76	phosphate	242.589	601	7262	1	-0.83
10	6.34	sulfate	199.430	1173	15961	1	-2.91
		Totals	2896.869	23642	194349		

File: 95072001.D07 Sample: S95T000999 DUP



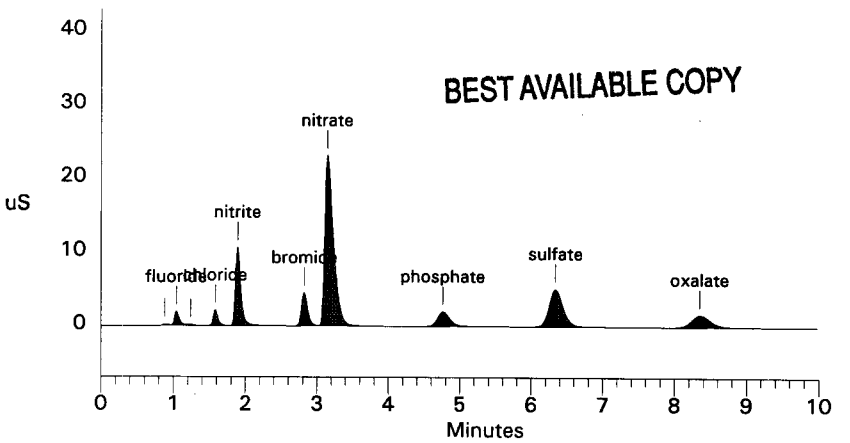
Sample Name:	S95T000999 + SPIKE	Date:	07/20/1995 09:55:29
Data File :	C:\DX\DATA\95072001.D08		WHC-SD-WM-DP-154, REV. 0
Method :	C:\DX\METHOD\KIT.MET		
ACI Address:	1 System: 1 Inject#: 8		Detector:CDM-1
Analyst :	Column:		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	142	678	2	
2	1.04	fluoride	56.668	1888	9059	3	2.97
3	1.24		0.000	131	515	4	
4	1.58	chloride	90.171	2145	9962	1	3.27
5	1.89	nitrite	726.830	10684	56697	1	2.16
6	2.82	bromide	530.700	4514	27622	1	0.71
7	3.14	nitrate	2781.532	23089	197630	1	-1.87
8	4.76	phosphate	718.208	1974	23720	1	-0.83
9	6.34	sulfate	787.566	5115	69232	1	-2.91
10	8.35	oxalate	494.519	1635	29833	1	-2.91
		Totals	6186.196	51318	424948		

File: 95072001.D08 Sample: S95T000999 + SPIKE



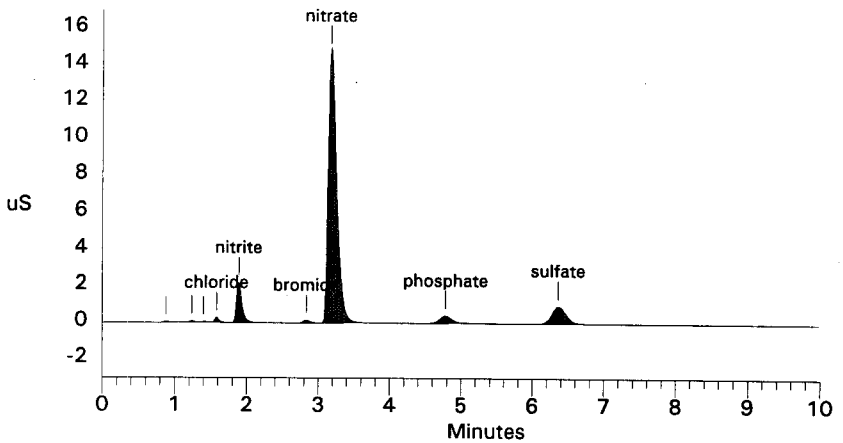
Sample Name: S95T001000 Date: 07/20/1995 10:11:25
Data File : C:\DX\DATA\95072001.D09 WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	54	242	1	
2	1.24		0.000	94	356	1	
3	1.40		0.000	38	211	1	
4	1.58	chloride	11.346	283	1240	1	3.27
5	1.89	nitrite	169.114	2194	11749	1	2.16
6	2.83	bromide	49.248	162	1018	1	1.07
7	3.17	nitrate	1773.121	14787	122358	1	-0.94
8	4.78	phosphate	175.812	419	4986	1	-0.42
9	6.36	sulfate	166.032	953	12982	1	-2.60
		Totals	2344.673	18982	155141		

File: 95072001.D09 Sample: S95T001000



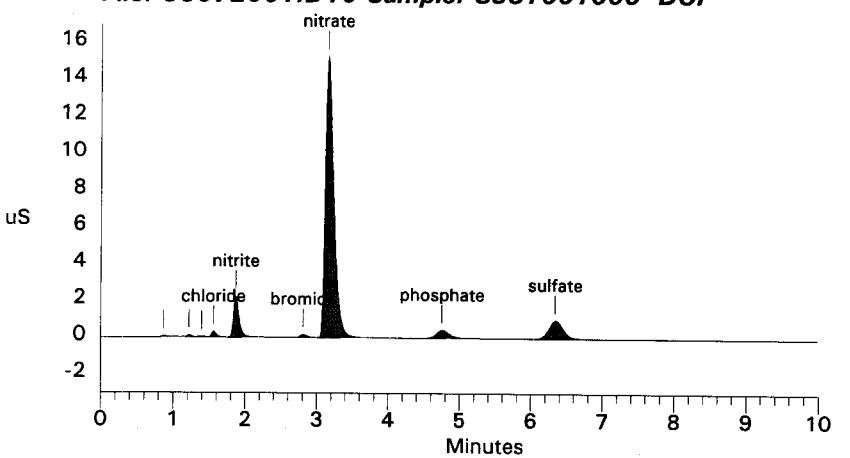
Sample Name: S95T001000 DUP	Date: 07/20/1995 10:23:44
Data File : C:\DX\DATA\95072001.D10	WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 10	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	58	265	1	
2	1.22		0.000	97	374	1	
4	1.56	chloride	12.266	299	1341	1	1.96
5	1.87	nitrite	171.765	2225	11962	1	1.08
6	2.81	bromide	49.908	166	1054	1	0.36
7	3.15	nitrate	1802.729	15259	124517	1	-1.56
8	4.75	phosphate	180.509	431	5146	1	-1.04
9	6.34	sulfate	173.801	981	13674	1	-2.91
		Totals	2390.976	19515	158334		

File: 95072001.D10 Sample: S95T001000 DUP



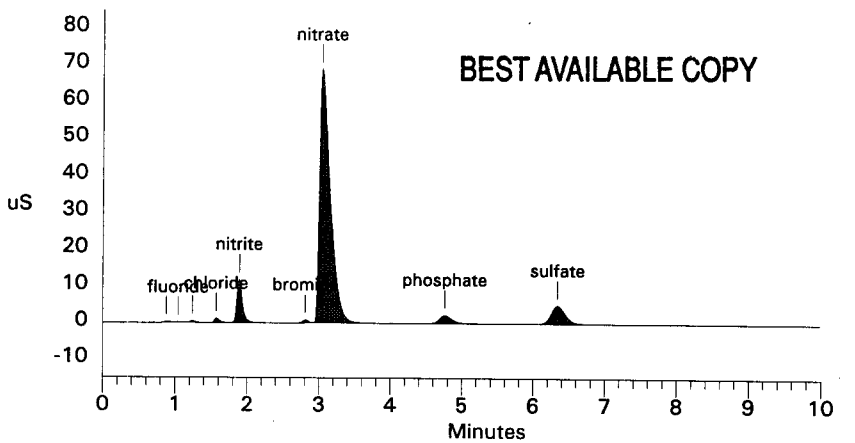
Sample Name: S95T001000 Date: 07/20/1995 10:38:27
Data File : C:\DX\DATA\95072001.D11 WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	241	1197	2	
2	1.04	fluoride	1.047	125	514	2	2.97
3	1.24		0.000	530	2277	1	
4	1.57	chloride	11.256	1225	5958	1	2.61
5	1.89	nitrite	165.376	11770	62230	1	2.16
6	2.81	bromide	23.369	822	4479	1	0.36
7	3.04	nitrate	1744.469	68774	714895over	1	-5.00
8	4.76	phosphate	168.696	2230	26996	1	-0.83
9	6.34	sulfate	159.801	4959	67486	1	-2.91
		Totals	2274.016	90675	886032		

File: 95072001.D11 Sample: S95T001000



Sample Name: S95T001000 DUP
Data File : C:\DX\DATA\95072001.D12
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12
Analyst : Column:

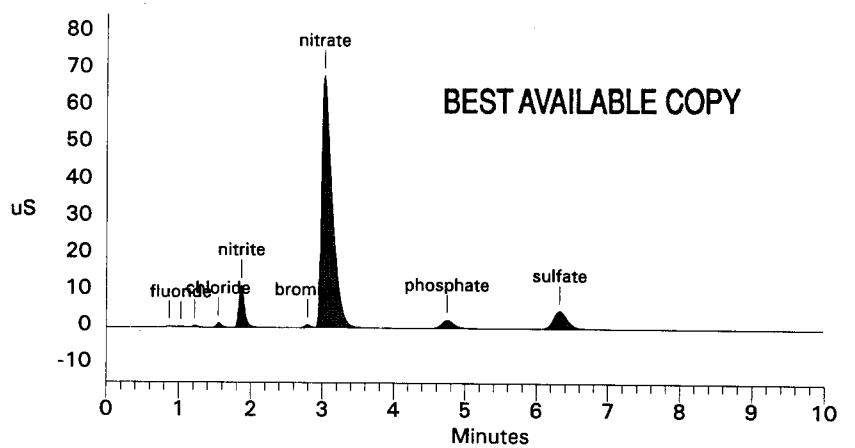
Date: 07/20/1995 10:49:14
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	262	1278	2	
2	1.03	fluoride	1.039	126	507	2	1.98
3	1.22		0.000	514	2221	1	
4	1.55	chloride	11.511	1219	6093	1	1.31
5	1.87	nitrite	167.709	11610	63136	1	1.08
6	2.79	bromide	23.397	821	4486	1	-0.36
7	3.02	nitrate	1732.173	68413	708052	1	-5.62
8	4.74	phosphate	170.365	2236	27279	1	-1.25
9	6.32	sulfate	158.137	4914	66751	1	-3.22
		Totals	2264.330	90113	879804		

File: 95072001.D12 Sample: S95T001000 DUP



LABCORE Data Entry Template for Worklist# 1862

Analyst: EC **Instrument:** IC01 **Book #** 96N9-C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: Rerun of S95T000984,994,995. See attached ACE form. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				@IC-01	F-02	SOLID	1	<.06	N/A	ug/g
		1 BLNK-PREP				@IC-01	CL-02	SOLID	1	<.08	N/A	ug/g
		1 BLNK-PREP				@IC-01	NO2-02	SOLID	1	<.5	N/A	ug/g
		1 BLNK-PREP				@IC-01	BR-02	SOLID	NA	NA	N/A	ug/g
		1 BLNK-PREP				@IC-01	NO3-02	SOLID	1	<.7	N/A	ug/g
		1 BLNK-PREP				@IC-01	PO4-02	SOLID	1	<.5	N/A	ug/g
		1 BLNK-PREP				@IC-01	SO4-02	SOLID	1	<.7	N/A	ug/g
		1 BLNK-PREP				@IC-01	OXALATE2	SOLID	NA	NA	N/A	ug/g
		2 STD				@IC-01	F-02	SOLID	59	58.1	N/A	ug/g
		2 STD				@IC-01	CL-02	SOLID	79	81.0	N/A	ug/g
		2 STD				@IC-01	NO2-02	SOLID	541	546	N/A	ug/g
		2 STD				@IC-01	BR-02	SOLID	NA	NA	N/A	ug/g
		2 STD				@IC-01	NO3-02	SOLID	614	633	N/A	ug/g
		2 STD				@IC-01	PO4-02	SOLID	546	511	N/A	ug/g
		2 STD				@IC-01	SO4-02	SOLID	631	634	N/A	ug/g
		2 STD				@IC-01	OXALATE2	SOLID	NA	NA	N/A	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01	F-02	SOLID	N/A	<5.89 E+2	5.89 E+2	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01	CL-02	SOLID	N/A	1.43 E+3	7.86 E+2	ug/g

Data Entry Comments:

LMCS 96N9-C .100mL - 10mL

SPIKE 96N9-C .100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1862

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 NO2-02	SOLID	N/A	1.59 E+4	4.91 E+3	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 NO3-02	SOLID	N/A	2.22 E+5	6.88 E+3	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 PO4-02	SOLID	N/A	2.24 E+4	4.91 E+3	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 SO4-02	SOLID	N/A	1.96 E+4	6.88 E+3	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 F-02	SOLID	<5.89 E+2	<5.81 E+2	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 CL-02	SOLID	1.43 E+3	1.43 E+3	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 NO2-02	SOLID	1.59 E+4	1.57 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 BR-02	SOLID	NA	NA	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 NO3-02	SOLID	2.22 E+5	2.20 E+5	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 PO4-02	SOLID	2.24 E+4	2.20 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 SO4-02	SOLID	1.96 E+4	1.94 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 OXALATE2	SOLID	NA	NA	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 CL-02	SOLID	100	98.7 / 99.1	N/A	ug/g JMF 7/31/95
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 F-02	SOLID	100	96.3 / 97.2	N/A	ug/g JMF 7/31/95
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 NO2-02	SOLID	100	97.4 / 98.4	N/A	ug/g JMF 7/31/95
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 BR-02	SOLID	NA	NA	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 NO3-02	SOLID	100	97.1 / 98.2	N/A	ug/g JMF 7/31/95
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 PO4-02	SOLID	100	91.4 / 92.3	N/A	ug/g JMF 7/31/95
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 SO4-02	SOLID	100	94.9 / 95.9	N/A	ug/g JMF 7/31/95
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 OXALATE2	SOLID	NA	NA	N/A	ug/g
95000059	BX-109	6 SAMPLE	S95T000994	0	W	@IC-01 F-02	SOLID	N/A	<6.04 E+2	6.04 E+2	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1862

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6	SAMPLE	S95T000994	0	W	@IC-01 CL-02	SOLID	N/A	1.38 E+3	8.05 E+2	ug/g
95000059	BX-109	6	SAMPLE	S95T000994	0	W	@IC-01 NO2-02	SOLID	N/A	2.12 E+4	5.03 E+3	ug/g
95000059	BX-109	6	SAMPLE	S95T000994	0	W	@IC-01 NO3-02	SOLID	N/A	2.01 E+5	7.05 E+3	ug/g
95000059	BX-109	6	SAMPLE	S95T000994	0	W	@IC-01 PO4-02	SOLID	N/A	2.88 E+4	5.03 E+3	ug/g
95000059	BX-109	6	SAMPLE	S95T000994	0	W	@IC-01 SO4-02	SOLID	N/A	1.88 E+4	7.05 E+3	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 F-02	SOLID	<6.04 E+2	<5.80 E+2	N/A	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 CL-02	SOLID	1.38 E+3	1.41 E+3	N/A	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 NO2-02	SOLID	2.12 E+4	2.15 E+4	N/A	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 BR-02	SOLID	NA	NA	N/A	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 NO3-02	SOLID	2.01 E+5	1.98 E+5	N/A	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 PO4-02	SOLID	2.88 E+4	2.83 E+4	N/A	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 SO4-02	SOLID	1.88 E+4	1.85 E+4	N/A	ug/g
95000059	BX-109	7	DUP	S95T000994	0	W	@IC-01 OXALATE2	SOLID	NA	NA	N/A	ug/g
95000059	BX-109	8	SAMPLE	S95T000995	0	W	@IC-01 F-02	SOLID	N/A	<5.94 E+2	5.94 E+2	ug/g
95000059	BX-109	8	SAMPLE	S95T000995	0	W	@IC-01 CL-02	SOLID	N/A	1.45 E+3	7.92 E+2	ug/g
95000059	BX-109	8	SAMPLE	S95T000995	0	W	@IC-01 NO2-02	SOLID	N/A	2.20 E+4	4.95 E+3	ug/g
95000059	BX-109	8	SAMPLE	S95T000995	0	W	@IC-01 NO3-02	SOLID	N/A	2.05 E+5	6.93 E+3	ug/g
95000059	BX-109	8	SAMPLE	S95T000995	0	W	@IC-01 PO4-02	SOLID	N/A	2.63 E+4	4.95 E+3	ug/g
95000059	BX-109	8	SAMPLE	S95T000995	0	W	@IC-01 SO4-02	SOLID	N/A	1.91 E+4	6.93 E+3	ug/g
95000059	BX-109	9	DUP	S95T000995	0	W	@IC-01 F-02	SOLID	<5.94 E+2	<5.95 E+2	N/A	ug/g
95000059	BX-109	9	DUP	S95T000995	0	W	@IC-01 CL-02	SOLID	1.45 E+3	1.37 E+3	N/A	ug/g
95000059	BX-109	9	DUP	S95T000995	0	W	@IC-01 NO2-02	SOLID	2.20 E+4	2.18 E+4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1862

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	9 DUP	S95T000995	0	W	AIC-01 BR-02	SOLID	NA E+5	NA E+5	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	AIC-01 NO3-02	SOLID	2.05 E+4	2.06 E+4	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	AIC-01 PO4-02	SOLID	2.63 E+4	2.64 E+4	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	AIC-01 SO4-02	SOLID	1.91 E+4	1.92 E+4	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	AIC-01 OXALATE2	SOLID	NA	NA	N/A	ug/g

Final page for worklist # 1862

B.N. Cohn 7-25-95
Analyst Signature Date

Analyst Signature 7-27-95
Date

Entries Corrected & Verified 7/31/95 JMFuge

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

from first run of these samples

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	SOLID
Test Code:	@IC01
Work List #:	1778
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	98N9B
Spike Sample #:	1
Prepared By:	R. JONES
Prepared Date:	07/19/95
Chemist:	J. FRYE
Analyst:	E. COLVIN
Analysis Date:	07/13/95
Time Complete:	10:20 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	WATER DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	98N9B
SAMPLE 1	S95T000984
DUPLICATE 1	S95T000984DUP
SAMPLE 2	S95T000994
DUPLICATE 2	S95T00994DUP
SAMPLE 3	S95T000995
DUPLICATE 3	S95T000995DUP
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000984SPK
SPIKE DUPLICATE	

PRINT

TECH INFO

	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.532	<.703	<.572	<.697		
Standard Data (µg/mL)	57.957	80.373	542.904	607.386	510.875	614.124		
Sample 1 Data (µg/mL)	1.94E+02	1.53E+03	1.80E+04	2.35E+05	2.36E+04	1.98E+04		
Sample 1 Dilution Factor	5151	5151	5151	5151	5151	5151		
Sample 1 Prep DF	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28
Duplicate 1 Data (µg/mL)	1.93E+02	1.43E+03	1.54E+04	2.32E+04	2.32E+04	1.94E+04		
Duplicate 1 Dilution Factor	5151	5151	5151	5151	5151	5151		
Duplicate 1 Prep DF	10.438	10.438	10.438	10.438	10.438	10.438	10.438	10.438
Sample 2 Data (µg/mL)	<.062	1.53E+03	2.15E+04	2.08E+05	2.95E+04	1.81E+04		
Sample 2 Dilution Factor	5151	5151	5151	5151	5151	5151		
Sample 2 Prep DF	10.033	10.033	10.033	10.033	10.033	10.033	10.033	10.033
Duplicate 2 Data (µg/mL)	<.062	1.12E+03	1.85E+04	1.62E+05	2.29E+04	1.43E+04		
Duplicate 2 Dilution Factor	5151	5151	5151	5151	5151	5151		
Duplicate 2 Prep DF	10.446	10.446	10.446	10.446	10.446	10.446	10.446	10.446
Sample 3 Data (µg/mL)	<.062	1.39E+03	2.12E+04	2.09E+05	2.85E+04	1.84E+04		
Sample 3 Dilution Factor	5151	5151	5151	5151	5151	5151		
Sample 3 Prep DF	10.205	10.205	10.205	10.205	10.205	10.205	10.205	10.205
Duplicate 3 Data (µg/mL)	<.062	1.11E+03	1.68E+04	1.59E+05	2.03E+04	1.42E+04		
Duplicate 3 Dilution Factor	5151	5151	5151	5151	5151	5151		
Duplicate 3 Prep DF	10.181	10.181	10.181	10.181	10.181	10.181	10.181	10.181
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	3.06E+03	5.11E+03	3.97E+04	2.22E+05	4.45E+04	4.67E+04		
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.20	10.20	10.20	10.20	10.20	10.20		
Std. Conc. (µg/mL)	59	79	547	614	546	631		
Detection Limit	0.062	0.083	0.532	0.703	0.572	0.697		
Matrix Detection Limit 1	3.11E+04	4.16E+04	2.67E+05	3.52E+05	2.87E+05	3.49E+05	0.00E+00	0.00E+00
Matrix Detection Limit 2	3.18E+04	4.26E+04	2.73E+05	3.61E+05	2.94E+05	3.58E+05	0.00E+00	0.00E+00
Matrix Detection Limit 3	3.13E+04	4.19E+04	2.69E+05	3.55E+05	2.89E+05	3.52E+05	0.00E+00	0.00E+00
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	98.1%	101.7%	99.3%	98.9%	93.6%	97.3%		
Sample 1 in µg/g	1.88E+04	1.49E+05	1.56E+06	2.28E+07	2.30E+05	1.92E+06	<0.00	<0.00
Duplicate 1 in µg/g	1.85E+04	1.37E+05	1.49E+06	2.22E+07	2.22E+05	1.85E+06	<0.00	<0.00
Duplicate 1 RPD	2.1%	8.4%	5.5%	2.7%	3.5%	3.6%	N/A	N/A
Sample 2 in µg/g	<31831.16	1.53E+05	2.14E+06	2.07E+07	2.94E+05	1.81E+06	<0.00	<0.00
Duplicate 2 in µg/g	<30572.66	1.07E+05	1.58E+06	1.55E+07	2.19E+05	1.37E+06	<0.00	<0.00
Duplicate 2 RPD	N/A	34.9%	30.1%	29.0%	29.3%	27.4%	ERR	ERR
Sample 3 in µg/g	<31294.66	1.36E+05	2.07E+06	2.05E+07	2.80E+05	1.80E+06		
Duplicate 3 in µg/g	<31368.43	1.09E+05	1.66E+06	1.56E+07	1.99E+05	1.39E+06		
Duplicate 3 RPD	N/A	21.9%	23.0%	28.9%	28.3%	25.5%		
Spike % Recovery	96.2%	89.6%	95.7%	-40.3%	75.7%	84.5%		

Data Entry by: R. Jones Date: 07/19/95

Approved by: Date:

Form DIONEX.WB1 Rev 1.3

353

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000984 & S95T000994 & S95T000995		
TEST CODE:	@IC-01	ANALYST:	E COLVIN
INSTRUMENT:	IC01	ANALYSIS DATE:	07/25/95
WORK LIST #:	1862	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	H2O DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
STD	98.5%	102.5%	100.9%	103.1%	93.6%	100.5%		
S95T000984	<589.49	1.43E+03	1.59E+04	2.22E+05	2.24E+04	1.96E+04		
S95T000984DUP	<580.57	1.43E+03	1.57E+04	2.20E+05	2.20E+04	1.94E+04		
Duplicate 1 RPD	N/A	0.2%	0.9%	1.3%	1.5%	1.5%		
S95T000994	<604.01	1.38E+03	2.12E+04	2.01E+05	2.88E+04	1.88E+04		
S95T000994DUP	<580.13	1.41E+03	2.15E+04	1.98E+05	2.83E+04	1.85E+04		
Duplicate 2 RPD	N/A	2.3%	1.4%	1.5%	1.6%	1.9%		
S95T000995	<593.83	1.45E+03	2.20E+04	2.05E+05	2.63E+04	1.91E+04		
S95T000995DUP	<595.23	1.37E+03	2.18E+04	2.06E+05	2.64E+04	1.92E+04		
Duplicate 3 RPD	N/A	6.0%	1.1%	0.5%	0.6%	0.2%		
	~~97.2%~~	~~99.7%~~	~~98.4%~~	~~98.2%~~	~~92.3%~~	~~95.9%~~	EJMA 7/31/95	

See attached sheet for correction

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: _____ Date: 7-28-95

Chemist Approval: _____ Date: 7/31/95

354

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000984		
TEST CODE:	@ic-01	ANALYST:	Ed Colvin
INSTRUMENT:	ic01	ANALYSIS DATE:	07/25/95
WORK LIST #:	1862	SAMPLE POINT:	B109
BATCH ID:		SAMPLE PREP:	water digest

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
96N9C								
S95T000984	0.00E+00	1.43E+03	1.58E+04	2.22E+05	2.24E+04	1.96E+04	<0.00	<0.00
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T000984spk	96.3%	98.7%	97.4%	97.1%	91.4%	94.9%		

NARRATIVE: Analyst Comments:

Chemist Comments:

Form Completed By:	Dawn Suggs	Date: 7/31/95
Chemist Approval:	Dawn Suggs	Date: 7/31/95

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	SOLID
Test Code:	@IC-01
Work List #:	1882
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9C
Spike Sample #:	1
Prepared By:	RW STORM
Prepared Date:	07/26/95
Chemist:	J FRYE
Analyst:	E COLVIN
Analysis Date:	07/26/95
Time Complete:	08:11 AM
Instrument Code:	IC01
Rerun:	
Sample Prep:	H2O DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	STD
SAMPLE 1	S95T000984
DUPLICATE 1	S95T000984DUP
SAMPLE 2	S95T000994
DUPLICATE 2	S95T000994DUP
SAMPLE 3	S95T000995
DUPLICATE 3	S95T000995DUP
SAMPLE 4	
DUPLICATE 4	
SPIKE	
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.06	<.08	<.6	<.7	<.6	<.7		
Standard Data (µg/mL)	58.1	81	546	633	511	634		
Sample 1 Data (µg/mL)	<.06	1.47E+01	1.63E+02	2.29E+03	2.30E+02	2.02E+02		
Sample 1 Dilution Factor	101	101	101	101	101	101		
Sample 1 Prep DF	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28
Duplicate 1 Data (µg/mL)	<.06	1.49E+01	1.64E+02	2.29E+03	2.30E+02	2.02E+02		
Duplicate 1 Dilution Factor	101	101	101	101	101	101		
Duplicate 1 Prep DF	10.438	10.438	10.438	10.438	10.438	10.438	10.438	10.438
Sample 2 Data (µg/mL)	<.06	1.38E+01	2.13E+02	2.02E+03	2.89E+02	1.89E+02		
Sample 2 Dilution Factor	101	101	101	101	101	101		
Sample 2 Prep DF	10.033	10.033	10.033	10.033	10.033	10.033	10.033	10.033
Duplicate 2 Data (µg/mL)	<.06	1.47E+01	2.26E+02	2.07E+03	2.98E+02	1.93E+02		
Duplicate 2 Dilution Factor	101	101	101	101	101	101		
Duplicate 2 Prep DF	10.446	10.446	10.446	10.446	10.446	10.446	10.446	10.446
Sample 3 Data (µg/mL)	<.06	1.48E+01	2.26E+02	2.10E+03	2.68E+02	1.95E+02		
Sample 3 Dilution Factor	101	101	101	101	101	101		
Sample 3 Prep DF	10.205	10.205	10.205	10.205	10.205	10.205	10.205	10.205
Duplicate 3 Data (µg/mL)	<.06	1.39E+01	2.22E+02	2.10E+03	2.69E+02	1.95E+02		
Duplicate 3 Dilution Factor	101	101	101	101	101	101		
Duplicate 3 Prep DF	10.181	10.181	10.181	10.181	10.181	10.181	10.181	10.181
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.68E+01	9.27E+01	6.90E+02	2.88E+03	7.29E+02	8.01E+02		
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.20	~~10.30~~	~~10.30~~	~~10.00~~	~~10.20~~	~~10.20~~	10.1	
Std. Conc. (µg/mL)	59	79	541	614	546	631		
Detection Limit	0.060	0.080	0.500	0.700	0.500	0.700		
Matrix Detection Limit 1	5.89E+02	7.86E+02	4.91E+03	6.88E+03	4.91E+03	6.88E+03	0.00E+00	0.00E+00
Matrix Detection Limit 2	6.04E+02	8.05E+02	5.03E+03	7.05E+03	5.03E+03	7.05E+03	0.00E+00	0.00E+00
Matrix Detection Limit 3	5.94E+02	7.92E+02	4.95E+03	6.93E+03	4.95E+03	6.93E+03	0.00E+00	0.00E+00
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	98.6%	102.5%	100.9%	103.1%	93.8%	100.5%		
Sample 1 in µg/g	<588.49	1.43E+03	1.59E+04	2.22E+05	2.24E+04	1.96E+04		
Duplicate 1 in µg/g	<580.67	1.43E+03	1.57E+04	2.20E+05	2.20E+04	1.94E+04		
Duplicate 1 RPD	N/A	0.2%	0.9%	1.3%	1.8%	1.6%		
Sample 2 in µg/g	<604.01	1.38E+03	2.12E+04	2.01E+05	2.88E+04	1.88E+04		
Duplicate 2 in µg/g	<580.13	1.41E+03	2.16E+04	1.98E+05	2.83E+04	1.86E+04		
Duplicate 2 RPD	N/A	2.3%	1.4%	1.5%	1.6%	1.9%		
Sample 3 in µg/g	<593.83	1.45E+03	2.20E+04	2.05E+05	2.63E+04	1.91E+04		
Duplicate 3 in µg/g	<595.23	1.37E+03	2.18E+04	2.06E+05	2.64E+04	1.92E+04		
Duplicate 3 RPD	N/A	6.0%	1.1%	0.5%	0.6%	0.2%		
Spike % Recovery	~~97.3%~~	~~99.7%~~	~~98.4%~~	~~88.3%~~	~~92.5%~~	~~96.9%~~		

Data Entry by: [signature] Date: 07/26/95
Approved by: [signature] Date: 7/31/95
Form DIONEX.WB1 Rev. 1.3

LAB LEADER INFO	
Method:	La-533-106 c-2
Matrix:	solid
Test Code:	@ic-01
Work List #:	1982
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9C
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	07/31/96
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	07/25/96
Time Complete:	06:11 AM
Instrument Code:	ic01
Rerun:	1
Sample Prep:	water digest
Sample Point:	B109
Sample Type	
STANDARD	96N9C
SAMPLE 1	S95T000984
DUPLICATE 1	
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000984spk
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)								
Standard Data (µg/mL)								
Sample 1 Data (µg/mL)	<.06	1.47E+01	1.83E+02	2.29E+03	2.30E+02	2.02E+02		
Sample 1 Dilution Factor	101	101	101	101	101	101		
Sample 1 Prep DF	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28
Duplicate 1 Data (µg/mL)								
Duplicate 1 Dilution Factor								
Duplicate 1 Prep DF								
Sample 2 Data (µg/mL)								
Sample 2 Dilution Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Dilution Factor								
Duplicate 2 Prep DF								
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	6.68E+01	9.27E+01	6.90E+02	2.89E+03	7.29E+02	6.01E+02		
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10		
Std. Conc. (µg/mL)	59	79	841	614	648	631		
Detection Limit								
Matrix Detection Limit 1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Sample 1 in µg/g	0.00E+00	1.43E+03	1.58E+04	2.22E+05	2.24E+04	1.96E+04	<0.00	<0.00
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Spike % Recovery	66.3%	88.7%	87.4%	97.1%	91.4%	94.9%		

Data Entry by: Jann Frye Date: 07/31/96

Approved by: Jann Frye Date: 7/31/96

Form DIONEX.WB1 Rev. 1.3

Sample Name: INSTR BLANK
Data File : C:\DX\DATA\95072411.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst : Column:

Date: 07/24/1995 06:11:42

WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1

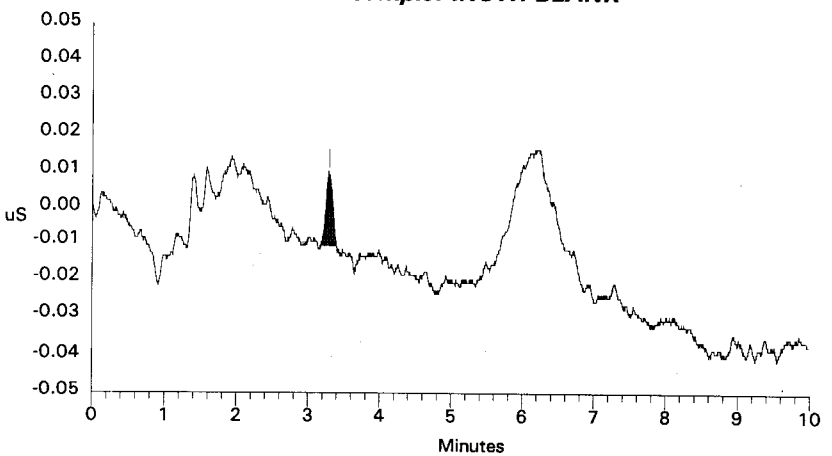
Ed Colburn 3/4/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95072411.D01 Sample: INSTR BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 358 TO 367.

Sample Name: PREP BLANK
Data File : C:\DX\DATA\95072411.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Column:

Date: 07/24/1995 06:22:33

WHC-SD-WM-DP-154, REV. 0

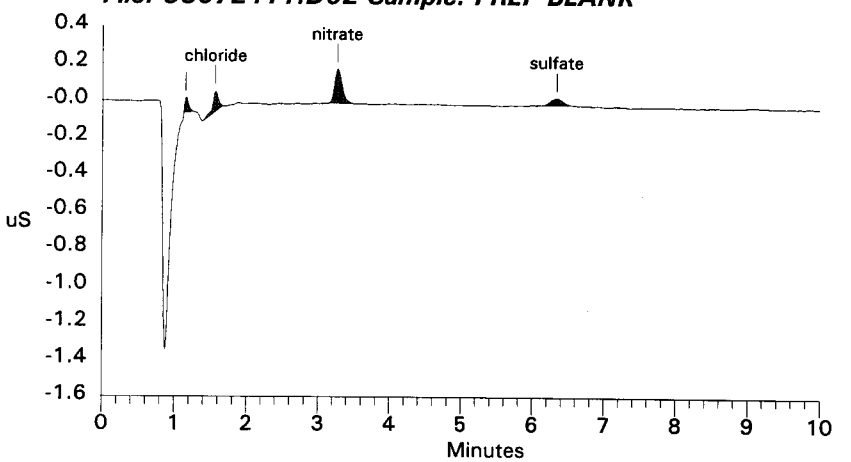
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.15		0.000	74	277	1	
2	1.56	chloride	0.052	107	573	1	1.96
3	3.26	nitrate	0.486	180	1316	1	1.88
4	6.33	sulfate	0.242	36	411	1	-3.06
		Totals	0.781	397	2577		

File: 95072411.D02 Sample: PREP BLANK



Sample Name: 96N9-C STD
Data File : C:\DX\DATA\95072411.D03
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3
Analyst : P.V. Cole Column:

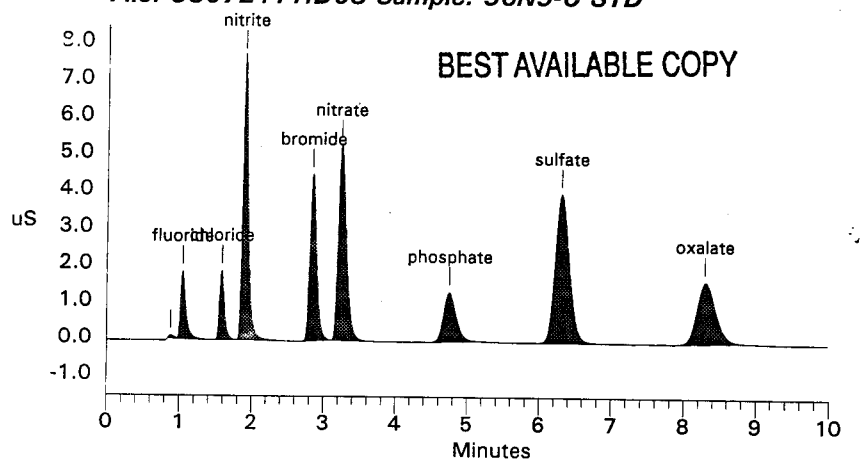
Date: 07/24/1995 06:33:29
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	80	390	2	
2	1.04	fluoride	58.077	1826	9293	2	2.97
3	1.58	chloride	80.985	1875	8938	1	3.27
4	1.89	nitrite	545.664	7666	42083	1	2.16
5	2.84	bromide	562.441	4494	29394	1	1.43
6	3.23	nitrate	633.060	5270	41333	1	0.94
7	4.75	phosphate	510.569	1338	16481	1	-1.04
8	6.30	sulfate	633.514	4010	55125	1	-3.52
9	8.29	oxalate	500.407	1667	30206	1	-3.60
		Totals	3524.716	28226	233243		

File: 95072411.D03 Sample: 96N9-C STD



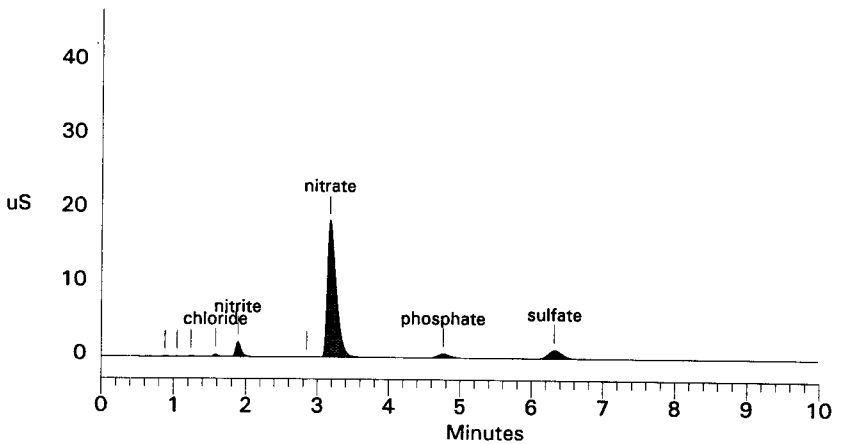
Sample Name: S95T000984 Date: 07/24/1995 06:47:51
Data File : C:\DX\DATA\95072411.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column:
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	55	273	2	
3	1.24		0.000	143	606	1	
4	1.58	chloride	14.659	341	1604	1	3.27
5	1.89	nitrite	162.563	2040	11222	1	2.16
7	3.17	nitrate	2286.270	18402	160206	1	-0.94
8	4.76	phosphate	229.845	551	6827	1	-0.83
9	6.32	sulfate	201.931	1164	16184	1	-3.22
		Totals	2895.268	22695	196920		

File: 95072411.D04 Sample: S95T000984



Sample Name: S95T000984 DUP
Data File : C:\DX\DATA\95072411.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst : Column:

Date: 07/24/1995 07:02:25

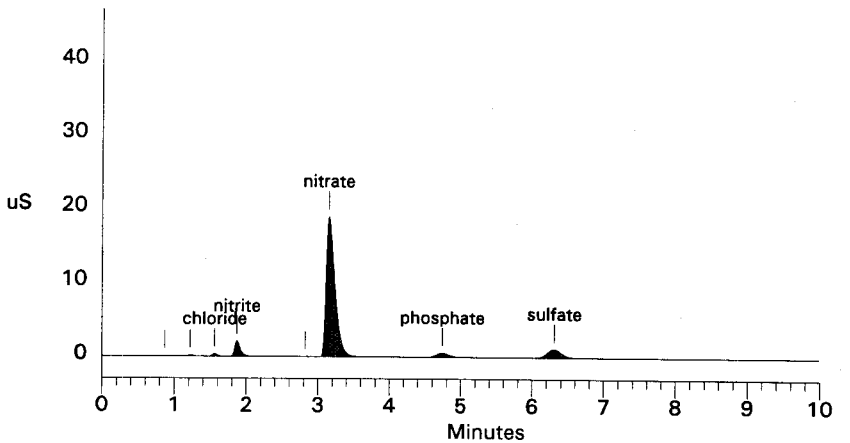
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	58	279	1	
2	1.22		0.000	139	586	1	
3	1.56	chloride	14.882	347	1629	1	1.96
4	1.87	nitrite	164.450	2083	11373	1	1.08
6	3.15	nitrate	2292.335	18867	160659	1	-1.56
7	4.74	phosphate	230.425	559	6847	1	-1.25
8	6.31	sulfate	202.283	1181	16215	1	-3.37
		Totals	2904.375	23235	197588		

File: 95072411.D05 Sample: S95T000984 DUP



Sample Name: S95T000984 + SPIKE
Data File : C:\DX\DATA\95072411.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst : Column:

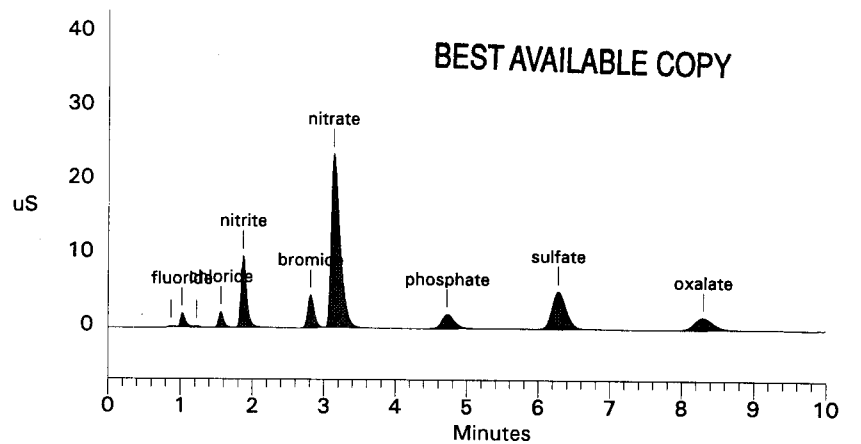
Date: 07/24/1995 07:13:14
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	132	605	2	
2	1.02	fluoride	56.830	1835	9086	3	0.99
3	1.22		0.000	164	788	4	
4	1.56	chloride	92.668	2123	10241	1	1.96
5	1.87	nitrite	689.621	9733	53695	1	1.08
6	2.81	bromide	535.414	4463	27885	1	0.36
7	3.13	nitrate	2882.613	23558	205382	1	-2.19
8	4.72	phosphate	729.048	1939	24100	1	-1.67
9	6.28	sulfate	800.722	5139	70442	1	-3.83
10	8.30	oxalate	493.692	1638	29780	1	-3.49
		Totals	6280.608	50723	432004		

File: 95072411.D06 Sample: S95T000984 + SPIKE



Sample Name: S95T000994
Data File : C:\DX\DATA\95072411.D07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : Column:

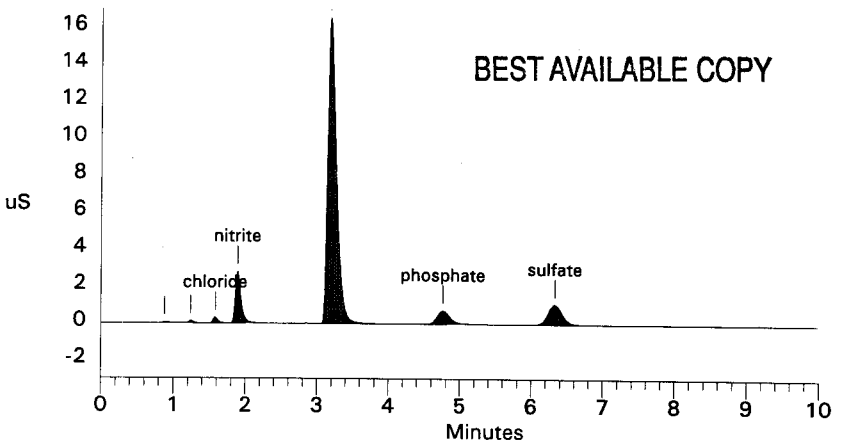
Date: 07/24/1995 07:29:51
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	54	263	1	
2	1.24		0.000	118	498	1	
3	1.58	chloride	13.794	319	1509	1	3.27
4	1.89	nitrite	213.152	2806	15294	1	2.16
5	3.18	nitrate	2017.645	16566	140279	1	-0.62
6	4.76	phosphate	289.266	721	8858	1	-0.83
7	6.33	sulfate	187.732	1081	14917	1	-3.06
		Totals	2721.589	21665	181617		

File: 95072411.D07 Sample: S95T000994



Sample Name: S95T000994 DUP
Data File : C:\DX\DATA\95072411.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst : Column:

Date: 07/24/1995 07:40:51

WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

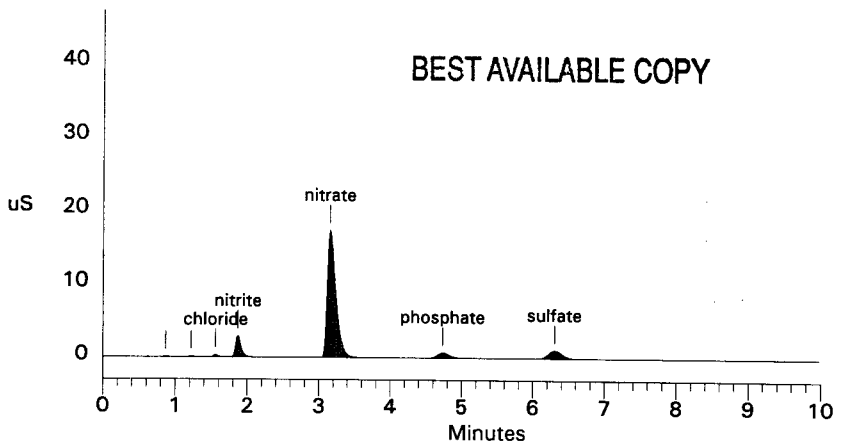
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	60	289	1	
2	1.22		0.000	126	561	1	
3	1.56	chloride	14.722	339	1611	1	1.96
4	1.87	nitrite	225.025	2922	16250	1	1.08
5	3.15	nitrate	2069.584	17267	144113	1	-1.56
6	4.73	phosphate	296.109	741	9092	1	-1.46
7	6.30	sulfate	192.717	1118	15361	1	-3.52
		Totals	2798.158	22574	187276		

File: 95072411.D08 Sample: S95T000994 DUP

BEST AVAILABLE COPY



Sample Name: S95T000995 Date: 07/24/1995 07:57:27
Data File : C:\DX\DATA\95072411.D09
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-154, REV. 0
ACI Address: 1 System: 1 Inject#: 9 Detector:CDM-1
Analyst : Column:

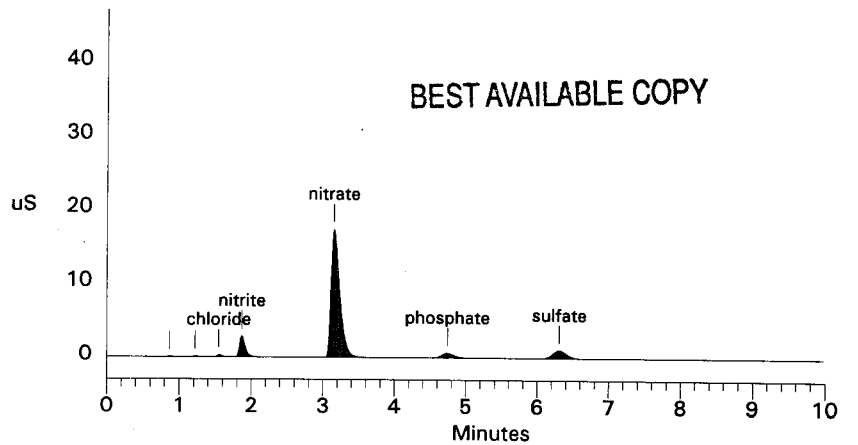
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	56	253	1	
2	1.22		0.000	120	500	1	
3	1.55	chloride	14.758	324	1615	1	1.31
4	1.87	nitrite	224.718	2929	16225	1	1.08
5	3.15	nitrate	2097.497	17345	146176	1	-1.56
6	4.74	phosphate	268.231	667	8138	1	-1.25
7	6.31	sulfate	194.938	1125	15560	1	-3.37
		Totals	2800.142	22565	188466		

File: 95072411.D09 Sample: S95T000995

BEST AVAILABLE COPY



Sample Name: S95T000995 DUP
Data File : C:\DX\DATA\95072411.D10
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10
Analyst : Column:

Date: 07/24/1995 08:11:12

WHC-SD-WM-DP-154, REV. 0

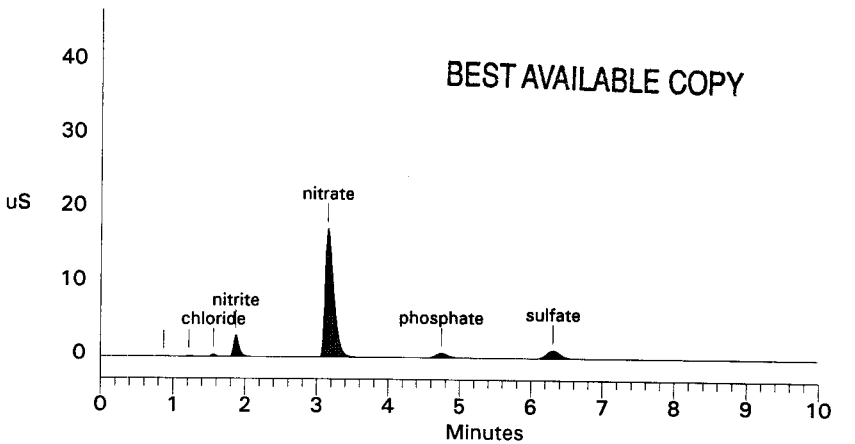
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	58	282	1	
2	1.22		0.000	120	525	1	
3	1.56	chloride	13.925	329	1524	1	1.96
4	1.87	nitrite	221.529	2903	15968	1	1.08
5	3.15	nitrate	2102.065	17303	146514	1	-1.56
6	4.74	phosphate	268.553	657	8149	1	-1.25
7	6.31	sulfate	195.102	1135	15574	1	-3.37
		Totals	2801.173	22505	188535		

File: 95072411.D10 Sample: S95T000995 DUP



LABCORE Data Entry Template for Worklist# 1875

Analyst: EC **Instrument:** IC01 _____ **Book #** 96N9-C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: Rerun of IC WKL 1777. See attached ACE form. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				@IC-01	F-02	SOLID	1	<.06	N/A	ug/g
		1	BLNK-PREP				@IC-01	CL-02	SOLID	1	<.08	N/A	ug/g
		1	BLNK-PREP				@IC-01	NO2-02	SOLID	1	<.5	N/A	ug/g
		1	BLNK-PREP				@IC-01	BR-02	SOLID	1	<.6	N/A	ug/g
		1	BLNK-PREP				@IC-01	NO3-02	SOLID	1	<.7	N/A	ug/g
		1	BLNK-PREP				@IC-01	PO4-02	SOLID	1	<.5	N/A	ug/g
		1	BLNK-PREP				@IC-01	SO4-02	SOLID	1	<.7	N/A	ug/g
		1	BLNK-PREP				@IC-01	OXALATE2	SOLID	1	<.5	N/A	ug/g
		2	STD				@IC-01	F-02	SOLID	59	61.7	N/A	ug/g
		2	STD				@IC-01	CL-02	SOLID	79	82.4	N/A	ug/g
		2	STD				@IC-01	NO2-02	SOLID	541	550	N/A	ug/g
		2	STD				@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01	NO3-02	SOLID	614	645	N/A	ug/g
		2	STD				@IC-01	PO4-02	SOLID	546	525	N/A	ug/g
		2	STD				@IC-01	SO4-02	SOLID	631	642	N/A	ug/g
		2	STD				@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000981	0	W	@IC-01	F-02	SOLID	N/A	<6.11 E+2	6.11 E+2	ug/g
95000057	BX-109	3	SAMPLE	S95T000981	0	W	@IC-01	CL-02	SOLID	N/A	1.51 E+3	8.15 E+2	ug/g

Data Entry Comments:

LMCS 96N9-C .100mL - 10mL

SPIKE 96N9-C .100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1875

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 NO2-02	SOLID	N/A	1.62 E+4	5.10 E+3	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 NO3-02	SOLID	N/A	2.14 E+5	7.13 E+3	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 PO4-02	SOLID	N/A	2.42 E+4	5.10 E+3	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 SO4-02	SOLID	N/A	1.95 E+4	7.13 E+3	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 F-02	SOLID	<6.11 E+2	<5.87 E+2	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 CL-02	SOLID	1.51 E+3	1.66 E+3	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 NO2-02	SOLID	1.62 E+4	1.73 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 BR-02	SOLID	N/A E+5	N/A E+5	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 NO3-02	SOLID	2.14 E+4	2.28 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 PO4-02	SOLID	2.42 E+4	2.52 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 SO4-02	SOLID	1.95	2.03	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 CL-02	SOLID	100	96.1 97.2	JMF 7/31/95 N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 F-02	SOLID	100	96.4 97.6	JMF 7/31/95 N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 NO2-02	SOLID	100	93.9 94.8	JMF 7/31/95 N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 NO3-02	SOLID	100	103.5 104.4	JMF 7/31/95 N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 PO4-02	SOLID	100	88.1 89.0	JMF 7/31/95 N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 SO4-02	SOLID	100	93.2 94.1	JMF 7/31/95 N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 F-02	SOLID	N/A	<5.81 E+2	5.81 E+2	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1875

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01 CL-02	SOLID	N/A	1.43 E+3	7.75 E+2	ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01 NO2-02	SOLID	N/A	1.73 E+4	4.84 E+3	ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01 NO3-02	SOLID	N/A	2.11 E+5	6.78 E+3	ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01 PO4-02	SOLID	N/A	2.69 E+4	4.84 E+3	ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01 SO4-02	SOLID	N/A	1.91 E+4	6.78 E+3	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 F-02	SOLID	≤5.81 E+2	≤5.75 E+2	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 CL-02	SOLID	1.43 E+3	1.39 E+3	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 NO2-02	SOLID	1.73 E+4	1.71 E+4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 NO3-02	SOLID	2.11 E+5	2.08 E+5	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 PO4-02	SOLID	2.69 E+4	2.67 E+4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 SO4-02	SOLID	1.91 E+4	1.87 E+4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01 F-02	SOLID	N/A	1.09 E+3	5.86 E+2	ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01 CL-02	SOLID	N/A	1.51 E+3	7.82 E+2	ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01 NO2-02	SOLID	N/A	1.49 E+4	4.88 E+3	ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01 NO3-02	SOLID	N/A	2.14 E+5	6.84 E+3	ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01 PO4-02	SOLID	N/A	2.18 E+4	4.88 E+3	ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01 SO4-02	SOLID	N/A	1.92 E+4	6.84 E+3	ug/g
95000057	BX-109	9	DUP	S95T000983	0	W	@IC-01 F-02	SOLID	1.09 E+3	1.06 E+3	N/A	ug/g
95000057	BX-109	9	DUP	S95T000983	0	W	@IC-01 CL-02	SOLID	1.51 E+3	1.42 E+3	N/A	ug/g
95000057	BX-109	9	DUP	S95T000983	0	W	@IC-01 NO2-02	SOLID	1.49 E+4	1.50 E+4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1875

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	NO3-02	SOLID	2.14 E+5	2.17 E+5	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	PO4-02	SOLID	2.18 E+4	2.18 E+4	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	SO4-02	SOLID	1.92 E+4	1.92 E+4	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g

Final page for worklist # 1875

E.N. Cole 7-26-95
Analyst Signature Date

[signature] 7-28-95
Analyst Signature Date

Titles Corrected & Verified 7/31/95 J.M. Fuy

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000981 & S95T000982 & S95T000983		
TEST CODE:	@IC-01	ANALYST:	E COLVIN
INSTRUMENT:	IC01	ANALYSIS DATE:	07/26/95
WORK LIST #:	1875	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	WATER DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
STD	104.6%	104.3%	101.7%	105.0%	96.2%	101.7%		
S95T000981	<611.44	1.51E+03	1.62E+04	2.14E+05	2.42E+04	1.95E+04		<0.00
S95T000981DUP	<587.10	1.66E+03	1.73E+04	2.28E+05	2.52E+04	2.03E+04		<0.00
Duplicate 1 RPD	N/A	9.0%	6.5%	6.3%	3.9%	4.4%		N/A
S95T000982	<581.02	1.43E+03	1.73E+04	2.11E+05	2.69E+04	1.91E+04		<0.00
S95T000982DUP	<574.84	1.39E+03	1.71E+04	2.08E+05	2.67E+04	1.87E+04		<0.00
Duplicate 2 RPD	N/A	2.4%	1.1%	1.4%	1.1%	2.1%		ERR
S95T000983	1.04E+03	1.51E+03	1.49E+04	2.14E+05	2.18E+04	1.92E+04		
S95T000983DUP	1.06E+03	1.42E+03	1.50E+04	2.17E+05	2.18E+04	1.92E+04		
Duplicate 3 RPD	1.7%	5.8%	0.6%	1.4%	0.3%	0.1%		
S95T000981SPK	~~97.6%~~	97.2%	~~84.8%~~	~~104.4%~~	89.0%	94.1%		

NARRATIVE: Analyst Comments:

Chemist Comments:

Form Completed By: Date:

Chemist Approval: Date: 7/31/95

372

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000981		
TEST CODE:	@ic-01	ANALYST:	Ed Colvin
INSTRUMENT:	ic01	ANALYSIS DATE:	07/26/95
WORK LIST #:	1875	SAMPLE POINT:	B109
BATCH ID:		SAMPLE PREP:	water digest

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
96N9C								
S95T000981	0.00E+00	1.52E+03	1.63E+04	2.14E+05	2.42E+04	1.95E+04	<0.00	<0.00
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T000981spk	96.4%	96.1%	93.9%	103.5%	88.1%	93.2%		

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: [signature] Date: 7/31/95

Chemist Approval: [signature] Date: 7/31/95

373

LAB LEADER INFO	
Method:	LA-833-106
Matrix:	SOLID
Test Code:	@IC-01
Work List #:	1878
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9C
Spike Sample #:	1
Prepared By:	RW STORM
Prepared Date:	07/28/95
Chemist:	JAN FRYE
Analyst:	E COLVIN
Analysis Date:	07/26/95
Time Complete:	08:13 AM
Instrument Code:	IC01
Rerun:	
Sample Prep:	WATER DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	STD
SAMPLE 1	S95T000981
DUPLICATE 1	S95T000981DUP
SAMPLE 2	S95T000982
DUPLICATE 2	S95T000982DUP
SAMPLE 3	S95T000983
DUPLICATE 3	S95T000983DUP
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000981SPK
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.06	<.08	<.5	<.7	<.5	<.7		
Standard Data (µg/mL)	61.7	82.4	550	645	525	642		
Sample 1 Data (µg/mL)	<.06	1.50E+01	1.61E+02	2.12E+03	2.40E+02	1.93E+02		
Sample 1 Dilution Factor	101	101	101	101	101	101		
Sample 1 Prep DF	9.911	9.911	9.911	9.911	9.911	9.911	9.911	9.911
Duplicate 1 Data (µg/mL)	<.06	1.71E+01	1.79E+02	2.36E+03	2.60E+02	2.10E+02		
Duplicate 1 Dilution Factor	101	101	101	101	101	101		
Duplicate 1 Prep DF	10.322	10.322	10.322	10.322	10.322	10.322	10.322	10.322
Sample 2 Data (µg/mL)	<.06	1.49E+01	1.60E+02	2.20E+03	2.81E+02	1.99E+02		
Sample 2 Dilution Factor	101	101	101	101	101	101		
Sample 2 Prep DF	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43
Duplicate 2 Data (µg/mL)	<.06	1.47E+01	1.60E+02	2.20E+03	2.81E+02	1.97E+02		
Duplicate 2 Dilution Factor	101	101	101	101	101	101		
Duplicate 2 Prep DF	10.542	10.542	10.542	10.542	10.542	10.542	10.542	10.542
					OK			
Sample 3 Data (µg/mL)	1.08E+01	1.58E+01	1.84E+02	2.21E+03	2.25E+02	1.98E+02		
Sample 3 Dilution Factor	101	101	101	101	101	101		
Sample 3 Prep DF	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339
Duplicate 3 Data (µg/mL)	1.12E+01	1.50E+01	1.68E+02	2.29E+03	2.30E+02	2.02E+02		
Duplicate 3 Dilution Factor	101	101	101	101	101	101		
Duplicate 3 Prep DF	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.70E+01	9.10E+01	6.69E+02	2.76E+03	7.21E+02	7.81E+02		
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	~~10.20~~	~~10.20~~	~~10.20~~	~~10.30~~	~~10.20~~	~~10.20~~	10.1	7/31/95
Std. Conc. (µg/mL)	59	79	541	614	646	631		
Detection Limit	0.060	0.080	0.500	0.700	0.500	0.700		
Matrix Detection Limit 1	6.11E+02	8.15E+02	5.10E+03	7.13E+03	5.10E+03	7.13E+03	0.00E+00	0.00E+00
Matrix Detection Limit 2	5.81E+02	7.75E+02	4.84E+03	6.78E+03	4.84E+03	6.78E+03	0.00E+00	0.00E+00
Matrix Detection Limit 3	5.86E+02	7.82E+02	4.88E+03	6.84E+03	4.88E+03	6.84E+03	0.00E+00	0.00E+00
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	104.6%	104.3%	101.7%	105.0%	96.2%	101.7%		
Sample 1 in µg/g	<611.44	1.51E+03	1.62E+04	2.14E+05	2.42E+04	1.95E+04		<0.00
Duplicate 1 in µg/g	<587.10	1.66E+03	1.73E+04	2.28E+05	2.52E+04	2.03E+04		<0.00
Duplicate 1 RPD	N/A	9.0%	6.6%	6.3%	3.9%	4.4%		N/A
Sample 2 in µg/g	<581.02	1.43E+03	1.73E+04	2.11E+05	2.69E+04	1.91E+04		<0.00
Duplicate 2 in µg/g	<574.84	1.39E+03	1.71E+04	2.08E+05	2.67E+04	1.87E+04		<0.00
Duplicate 2 RPD	N/A	2.4%	1.1%	1.4%	1.1%	2.1%		ERR
Sample 3 in µg/g	1.04E+03	1.51E+03	1.49E+04	2.14E+05	2.18E+04	1.92E+04		
Duplicate 3 in µg/g	1.06E+03	1.42E+03	1.60E+04	2.17E+05	2.18E+04	1.92E+04		
Duplicate 3 RPD	1.7%	5.8%	0.8%	1.4%	0.3%	0.1%		
Spike % Recovery	~~97.6%~~	~~97.2%~~	~~94.5%~~	~~104.4%~~	~~89.0%~~	~~94.1%~~	JMF	7/31/95

Data Entry by: [signature] Date: 07/28/95

Approved by: [signature] Date: 7/31/95

Form DIONEX.WB1 Rev. 1.3

LAB LEADER INFO	
Method:	La-533-105 c-2
Matrix:	solid
Test Code:	@ic-01
Work List #:	1975
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9C
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	07/31/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	07/28/95
Time Complete:	08:13 AM
Instrument Code:	ic01
Rerun:	1
Sample Prep:	water digest
Sample Point:	B109
Sample Type	
STANDARD	96N9C
SAMPLE 1	S95T000981
DUPLICATE 1	
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000981spk
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)								
Standard Data (µg/mL)								
Sample 1 Data (µg/mL)	<.06	1.50E+01	1.61E+02	2.12E+03	2.40E+02	1.93E+02		
Sample 1 Dilution Factor	101	101	101	101	101	101		
Sample 1 Prep DF	9.911	9.911	9.911	9.911	9.911	9.911	9.911	9.911
Duplicate 1 Data (µg/mL)								
Duplicate 1 Dilution Factor								
Duplicate 1 Prep DF								
Sample 2 Data (µg/mL)								
Sample 2 Dilution Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Dilution Factor								
Duplicate 2 Prep DF								
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.69E+01	9.10E+01	8.69E+02	2.76E+03	7.21E+02	7.91E+02		
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10		
Std. Conc. (µg/mL)	59	79	541	614	546	631		
Detection Limit								
Matrix Detection Limit 1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Sample 1 in µg/g	0.00E+00	1.52E+03	1.63E+04	2.14E+05	2.42E+04	1.95E+04	<0.00	<0.00
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Spike % Recovery	98.4%	96.1%	93.9%	103.5%	98.1%	93.2%		

Data Entry by: J M Frye
Date: 07/31/95
Approved by: J M Frye
Date: 7/31/95
Form DIONEX.WB1 Rev. 1.3

Sample Name: INSTR BLANK
Data File : C:\DX\DATA\95072621.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst : Column:

Date: 07/26/1995 06:19:09

WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1

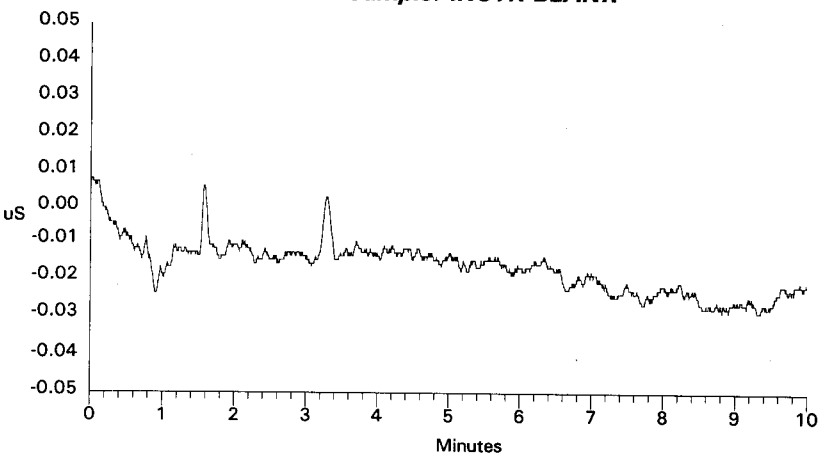
for Ed Colvin 3/4/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95072621.D01 Sample: INSTR BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 376 TO 385.

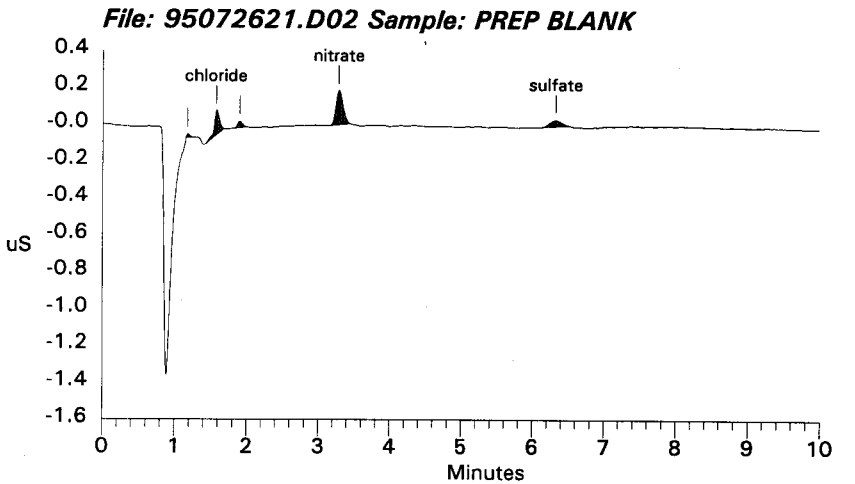
Sample Name: PREP BLANK
Data File : C:\DX\DATA\95072621.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Column:

Date: 07/26/1995 06:30:14
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.57	chloride	0.061	129	674	1	2.61
4	3.28	nitrate	0.482	185	1286	1	2.50
5	6.32	sulfate	0.239	34	382	1	-3.22
		Totals	0.782	347	2341		



Sample Name: 96N9-C STD
Data File : C:\DX\DATA\95072621.D03
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3
Analyst : Column:

Date: 07/26/1995 06:41:14
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

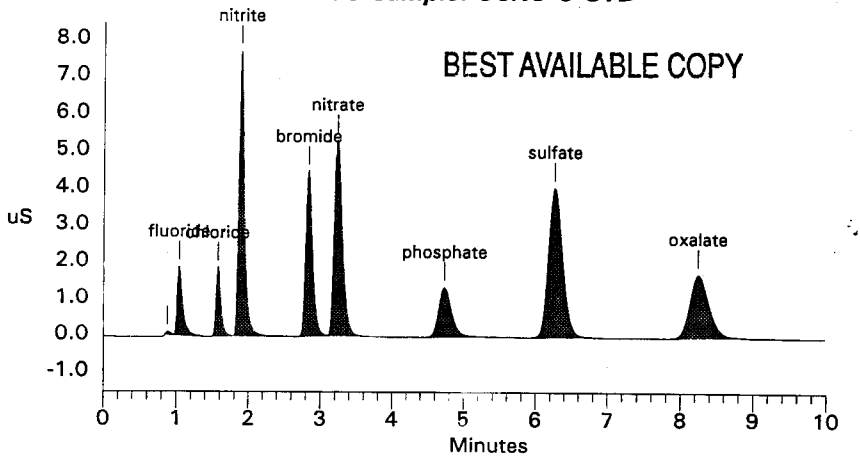
7/26/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	80	375	2	
2	1.04	fluoride	61.746	1872	9905	2	2.97
3	1.57	chloride	82.384	1852	9094	1	2.61
4	1.89	nitrite	549.707	7698	42409	1	2.16
5	2.83	bromide	568.632	4458	29740	1	1.07
6	3.23	nitrate	644.568	5292	42131	1	0.94
7	4.73	phosphate	524.903	1350	16978	1	-1.46
8	6.26	sulfate	641.628	4052	55865	1	-4.13
9	8.24	oxalate	514.085	1715	31074	1	-4.19
		Totals	3587.653	28369	237570		

File: 95072621.D03 Sample: 96N9-C STD



Sample Name: S95T000981
Data File : C:\DX\DATA\95072621.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column:

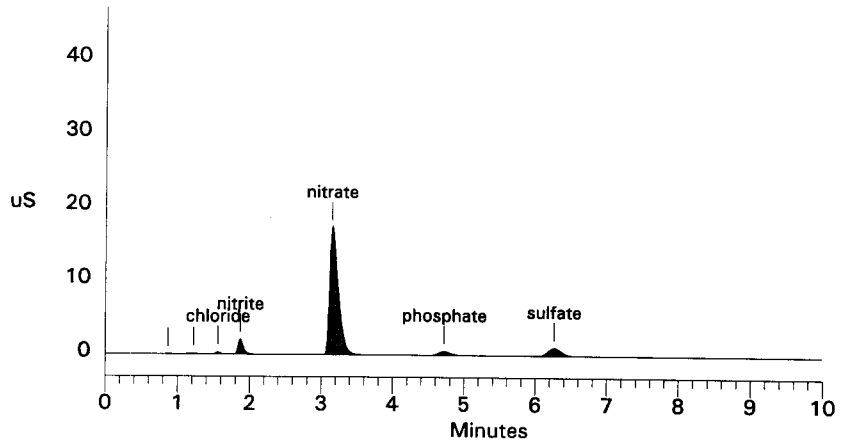
Date: 07/26/1995 06:53:56
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	58	279	1	
2	1.22		0.000	147	902	1	
3	1.56	chloride	15.039	344	1646	1	1.96
4	1.87	nitrite	161.394	2040	11127	1	1.08
5	3.15	nitrate	2123.816	17310	148125	1	-1.56
6	4.72	phosphate	239.654	570	7162	1	-1.67
7	6.26	sulfate	193.065	1107	15393	1	-4.13
		Totals	2732.969	21576	184634		

File: 95072621.D04 Sample: S95T000981



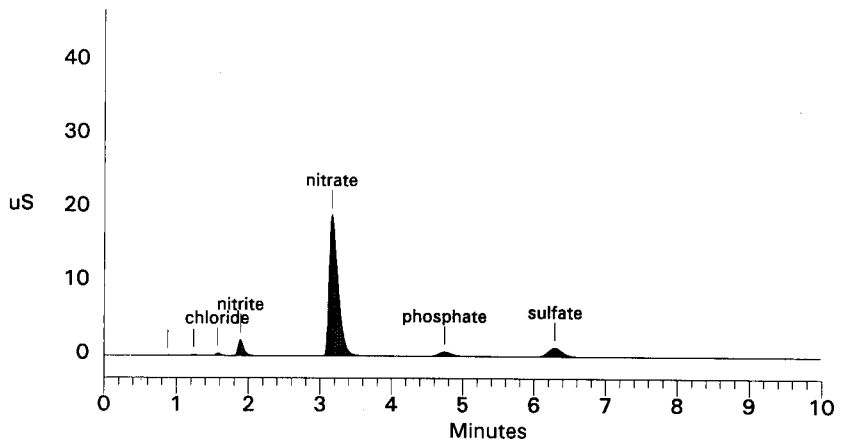
Sample Name: S95T000981 DUP Date: 07/26/1995 07:08:16
Data File : C:\DX\DATA\95072621.D05 WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	52	249	1	
2	1.24		0.000	146	660	1	
3	1.57	chloride	17.093	376	1872	1	2.61
4	1.89	nitrite	178.519	2230	12506	1	2.16
5	3.16	nitrate	2356.990	19019	165494	1	-1.25
6	4.74	phosphate	260.421	617	7871	1	-1.25
7	6.29	sulfate	209.969	1221	16901	1	-3.68
		Totals	3022.994	23662	205554		

File: 95072621.D05 Sample: S95T000981 DUP



Sample Name: S95T000981 + SPIKE
Data File : C:\DX\DATA\95072621.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst : Column:

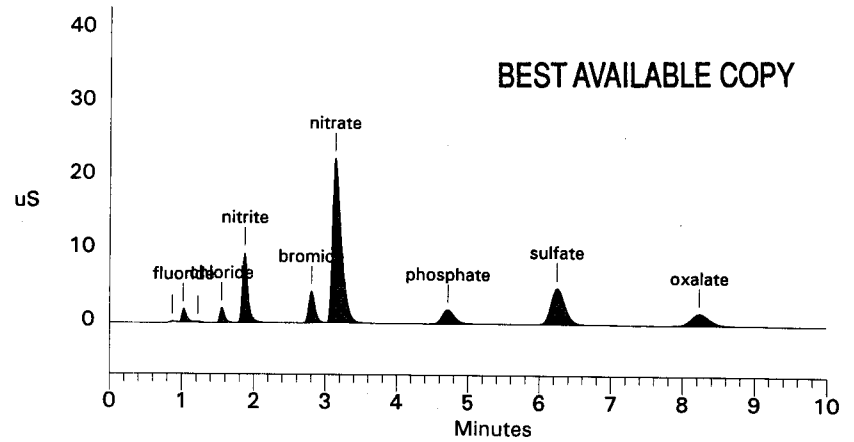
Date: 07/26/1995 07:20:53
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	127	574	2	
2	1.02	fluoride	56.971	1821	9109	3	0.99
3	1.22		0.000	164	850	4	
4	1.55	chloride	90.966	2048	10051	1	1.31
5	1.87	nitrite	669.183	9545	52046	1	1.08
6	2.80	bromide	523.447	4299	27217	1	0.00
7	3.13	nitrate	2759.226	22433	195925	1	-2.19
8	4.71	phosphate	720.600	1934	23804	1	-1.87
9	6.24	sulfate	781.278	4967	68654	1	-4.44
10	8.23	oxalate	485.822	1620	29281	1	-4.30
		Totals	6087.492	48958	417511		

File: 95072621.D06 Sample: S95T000981 + SPIKE



Sample Name: S95T000982
Data File : C:\DX\DATA\95072621.D07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : Column:

Date: 07/26/1995 07:31:41
WHC-SD-WM-DP-154, REV. 0

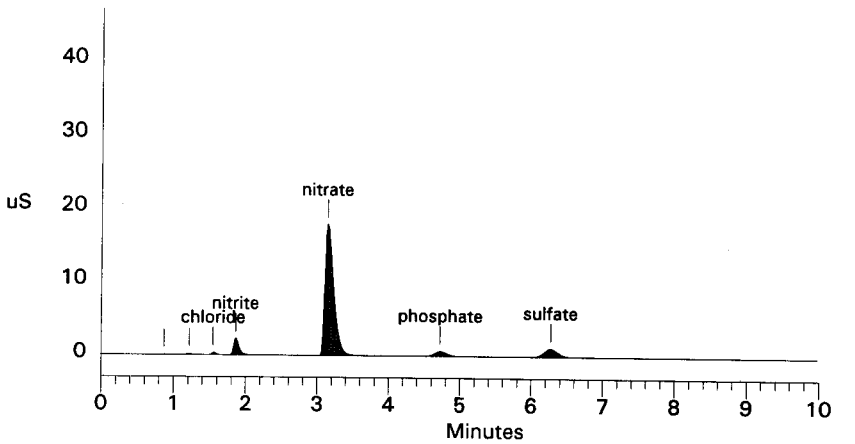
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	60	278	1	
2	1.22		0.000	155	948	1	
3	1.55	chloride	14.892	341	1630	1	1.31
4	1.86	nitrite	179.976	2247	12623	1	0.54
5	3.14	nitrate	2203.705	17850	154054	1	-1.87
6	4.72	phosphate	280.510	692	8558	1	-1.67
7	6.27	sulfate	198.555	1151	15882	1	-3.98
		Totals	2877.638	22495	193974		

File: 95072621.D07 Sample: S95T000982



Sample Name: S95T000982 DUP
Data File : C:\DX\DATA\95072621.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst : Column:

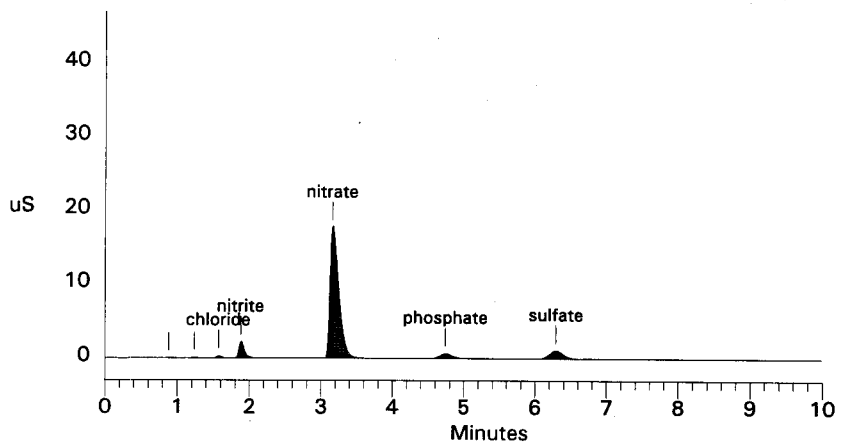
Date: 07/26/1995 07:42:31
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	61	300	1	
2	1.24		0.000	135	581	1	
3	1.57	chloride	14.738	336	1613	1	2.61
4	1.88	nitrite	179.936	2231	12620	1	1.62
5	3.16	nitrate	2195.803	17742	153467	1	-1.25
6	4.74	phosphate	281.433	689	8590	1	-1.25
7	6.29	sulfate	196.697	1139	15717	1	-3.68
		Totals	2868.607	22333	192887		

File: 95072621.D08 Sample: S95T000982 DUP



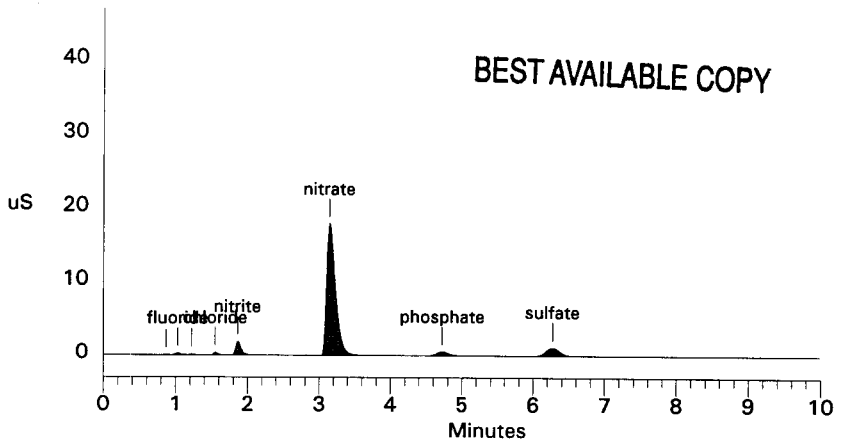
Sample Name: S95T000983		Date: 07/26/1995 07:56:51
Data File : C:\DX\DATA\95072621.D09		WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET		
ACI Address: 1 System: 1 Inject#: 9		Detector:CDM-1
Analyst :	Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	59	292	2	
2	1.03	fluoride	10.803	280	1463	2	1.98
3	1.22		0.000	156	752	2	
4	1.55	chloride	15.573	350	1705	1	1.31
5	1.86	nitrite	154.032	1867	10535	1	0.54
6	3.14	nitrate	2213.242	17844	154763	1	-1.87
7	4.72	phosphate	224.903	533	6658	1	-1.67
8	6.27	sulfate	197.708	1147	15807	1	-3.98
		Totals	2816.261	22237	191975		

File: 95072621.D09 Sample: S95T000983



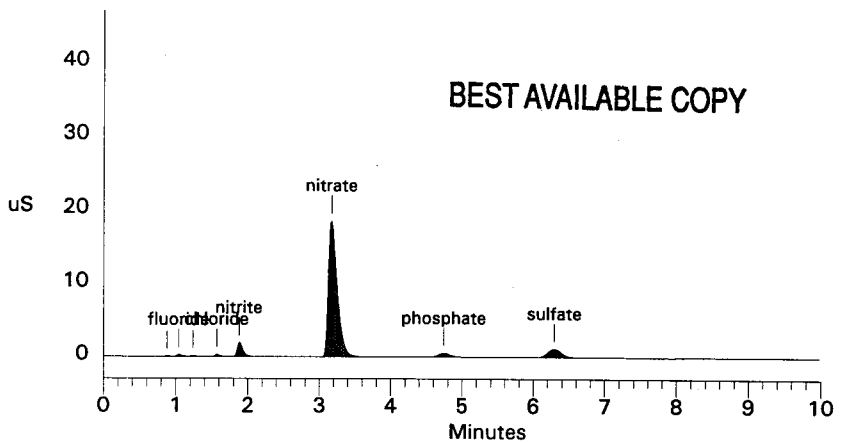
Sample Name: S95T000983 DUP		Date: 07/26/1995 08:13:02	
Data File : C:\DX\DATA\95072621.D10		WHC-SD-WM-DP-154, REV. 0	
Method : C:\DX\METHOD\KIT.MET			
ACI Address: 1 System: 1 Inject#: 10		Detector:CDM-1	
Analyst :	Column:		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	52	264	2	
2	1.04	fluoride	11.181	294	1525	2	2.97
3	1.24		0.000	165	806	2	
4	1.57	chloride	15.025	340	1644	1	2.61
5	1.88	nitrite	157.961	1910	10851	1	1.62
6	3.17	nitrate	2287.817	18510	160321	1	-0.94
7	4.74	phosphate	230.484	555	6849	1	-1.25
8	6.29	sulfate	201.617	1170	16156	1	-3.68
		Totals	2904.085	22996	198417		

File: 95072621.D10 Sample: S95T000983 DUP



LABCORE Completed Worklist Report for Worklist# 1978

Analyst: ehc **Instrument:** IC01 **Book#** 100N9C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 Composite, report due 8/24/95. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual		Found	DL or Yield	Unit
1	BLNK-PREP			0	@IC-01 F-02	SOLID	1		<.062		ug/g
1	BLNK-PREP			0	@IC-01 CL-02	SOLID	1		<.083		ug/g
1	BLNK-PREP			0	@IC-01 NO2-02	SOLID	1		<.547		ug/g
1	BLNK-PREP			0	@IC-01 BR-02	SOLID	1		<.632		ug/g
1	BLNK-PREP			0	@IC-01 NO3-02	SOLID	1		<.699		ug/g
1	BLNK-PREP			0	@IC-01 PO4-02	SOLID	1		<.596		ug/g
1	BLNK-PREP			0	@IC-01 SO4-02	SOLID	1		<.678		ug/g
1	BLNK-PREP			0	@IC-01 OXALATE2	SOLID	1		n/a		ug/g
2	STD			0	@IC-01 F-02	SOLID	59		62.9	106.610	% Recovery
2	STD			0	@IC-01 CL-02	SOLID	79		81.3	102.910	% Recovery
2	STD			0	@IC-01 NO2-02	SOLID	534		544	101.870	% Recovery
2	STD			0	@IC-01 BR-02	SOLID	575		584	101.570	% Recovery
2	STD			0	@IC-01 NO3-02	SOLID	614		629	102.440	% Recovery
2	STD			0	@IC-01 PO4-02	SOLID	546		560	102.560	% Recovery
2	STD			0	@IC-01 SO4-02	SOLID	631		650	103.010	% Recovery
2	STD			0	@IC-01 OXALATE2	SOLID	524		n/a		% Recovery
3	SAMPLE	S95T001326	0	W	@IC-01 F-02	SOLID	N/A	<	6.42e2	642.000	ug/g
3	SAMPLE	S95T001326	0	W	@IC-01 CL-02	SOLID	N/A		1.10e3	860.000	ug/g
3	SAMPLE	S95T001326	0	W	@IC-01 NO2-02	SOLID	N/A		1.81e4	5.670e+003	ug/g
3	SAMPLE	S95T001326	0	W	@IC-01 BR-02	SOLID	N/A	<	6.55e3	6.550e+003	ug/g
3	SAMPLE	S95T001326	0	W	@IC-01 NO3-02	SOLID	N/A		2.25e5	7.240e+003	ug/g
3	SAMPLE	S95T001326	0	W	@IC-01 PO4-02	SOLID	N/A		2.66e4	6.180e+003	ug/g
3	SAMPLE	S95T001326	0	W	@IC-01 SO4-02	SOLID	N/A		1.95e4	7.030e+003	ug/g
4	DUP	S95T001326	0	W	@IC-01 F-02	SOLID	<6.42e2		<6.52e2		RPD
4	DUP	S95T001326	0	W	@IC-01 CL-02	SOLID	1.10e3		1.26e3	13.560	RPD
4	DUP	S95T001326	0	W	@IC-01 NO2-02	SOLID	1.81e4		1.80e4	0.550	RPD
4	DUP	S95T001326	0	W	@IC-01 BR-02	SOLID	<6.55e3		<6.64e3		RPD
4	DUP	S95T001326	0	W	@IC-01 NO3-02	SOLID	2.25e5		2.18e5	3.160	RPD
4	DUP	S95T001326	0	W	@IC-01 PO4-02	SOLID	2.66e4		2.65e4	0.380	RPD
4	DUP	S95T001326	0	W	@IC-01 SO4-02	SOLID	1.95e4		1.91e4	2.070	RPD
4	DUP	S95T001326	0	W	@IC-01 OXALATE2	SOLID	n/a		n/a		RPD

Final page for worklist# 1978

Analyst Signature **Date**

Analyst Signature **Date**

Jason M Luy 8/15/95
Reviewer Signature **Date**

386

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 1978

Analyst: EC **Instrument:** IC01 _____ **Book #** 100N9C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 Composite, report due 8/24/95. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				@IC-01	F-02	SOLID		<.362	N/A	ug/g
		1	BLNK-PREP				@IC-01	CL-02	SOLID		<.083	N/A	ug/g
		1	BLNK-PREP				@IC-01	NO2-02	SOLID		<.547	N/A	ug/g
		1	BLNK-PREP				@IC-01	BR-02	SOLID		<.632	N/A	ug/g
		1	BLNK-PREP				@IC-01	NO3-02	SOLID		<.699	N/A	ug/g
		1	BLNK-PREP				@IC-01	PO4-02	SOLID		<.596	N/A	ug/g
		1	BLNK-PREP				@IC-01	SO4-02	SOLID		<.678	N/A	ug/g
		1	BLNK-PREP				@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01	F-02	SOLID		62.9	N/A	ug/g
		2	STD				@IC-01	CL-02	SOLID		81.3	N/A	ug/g
		2	STD				@IC-01	NO2-02	SOLID		544	N/A	ug/g
		2	STD				@IC-01	BR-02	SOLID		584	N/A	ug/g
		2	STD				@IC-01	NO3-02	SOLID		629	N/A	ug/g
		2	STD				@IC-01	PO4-02	SOLID		560	N/A	ug/g
		2	STD				@IC-01	SO4-02	SOLID		650	N/A	ug/g
		2	STD				@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T001326	0	W	@IC-01	F-02	SOLID	N/A	1.642e2	1.42e2	ug/g
95000057	BX-109	3	SAMPLE	S95T001326	0	W	@IC-01	CL-02	SOLID	N/A	1.10e3	8.60e2	ug/g

Data Entry Comments:

LMCS 100N9-B .100mL -10m S95T001326 9.7470g/L, dup 9.6090g/L
SPIKE 100N9-B .100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1978

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T001326	0	W	@IC-01 NO2-02	SOLID	N/A	1.81e4	5.67e3	ug/g
95000057	BX-109	3 SAMPLE	S95T001326	0	W	@IC-01 BR-02	SOLID	N/A	2.65e3	6.55e3	ug/g
95000057	BX-109	3 SAMPLE	S95T001326	0	W	@IC-01 NO3-02	SOLID	N/A	2.25e5	7.24e3	ug/g
95000057	BX-109	3 SAMPLE	S95T001326	0	W	@IC-01 PO4-02	SOLID	N/A	2.66e4	6.18e3	ug/g
95000057	BX-109	3 SAMPLE	S95T001326	0	W	@IC-01 SO4-02	SOLID	N/A	1.95e4	7.03e3	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 F-02	SOLID	<6.42e2	<6.52e2	N/A	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 CL-02	SOLID	1.10e3	1.26e3	N/A	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 NO2-02	SOLID	1.81e4	1.80e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 BR-02	SOLID	<6.55e3	<6.64e3	N/A	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 NO3-02	SOLID	2.25e5	2.18e5	N/A	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 PO4-02	SOLID	2.66e4	2.65e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 SO4-02	SOLID	1.95e4	1.91e4	N/A	ug/g
95000057	BX-109	4 DUP	S95T001326	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g

6 gmF 8/15/95

Final page for worklist # 1978

C.H. Cohn 8-11-95
Analyst Signature Date

Analyst Signature Date

Entered & Verified 8/15/95 J.M. Luge

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T001326		
TEST CODE:	@IC-01	ANALYST:	Ed Colvin
INSTRUMENT:	IC01	ANALYSIS DATE:	08/11/95
WORK LIST #:	1978	SAMPLE POINT:	BX-109 comp.
BATCH ID:		SAMPLE PREP:	water digest

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
100N9B	106.6%	102.9%	101.9%	102.4%	102.6%	103.0%	101.6%	ERR
S95T001326	<642.45	1.10E+03	1.81E+04	2.25E+05	2.66E+04	1.95E+04	<6548.89	<0.00
S95T001326dup	<651.68	1.26E+03	1.80E+04	2.18E+05	2.65E+04	1.91E+04	<6642.94	<0.00
Duplicate 1 RPD	N/A	13.9%	0.7%	3.4%	0.2%	2.3%	N/A	N/A
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T001326 spk	108.3%	104.2%	100.3%	97.7%	105.9%	101.6%	101.7%	ERR

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By:	Jana Lugo	Date:	8/14/95
Chemist Approval:	Jana Lugo	Date:	8/15/95

LAB LEADER INFO	
Method:	Ls-533-106 c-2
Matrix:	solid
Test Code:	@IC-01
Work List #:	1978
Batch #:	
Result Units (µg/g or µg/mL):	µg/g
Spike Book Number:	100N9B
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	08/14/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	08/11/95
Time Complete:	11:27 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	water digest
Sample Point:	BX-109 comp.
Sample Type	
STANDARD	100N9B
SAMPLE 1	S95T001326
DUPLICATE 1	S95T001326dup
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001326 spk
SPIKE DUPLICATE	@PJL ENTER LAN USER ID

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.647	<.899	<.596	<.678	<.632	n/a
Standard Data (µg/mL)	62.9	91.3	644	829	560	650	584	n/a
Sample 1 Data (µg/mL)	<.062	1.07E+01	1.76E+02	2.20E+03	2.59E+02	1.90E+02	<.632	n/a
Sample 1 Dilution Factor	101	101	101	101	101	101	101	101
Sample 1 Prep DF	9.747	9.747	9.747	9.747	9.747	9.747	9.747	9.747
Duplicate 1 Data (µg/mL)	<.062	1.21E+01	1.73E+02	2.09E+03	2.56E+02	1.83E+02	<.632	n/a
Duplicate 1 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 1 Prep DF	9.609	9.609	9.609	9.609	9.609	9.609	9.609	9.609
Sample 2 Data (µg/mL)								
Sample 2 Dilution Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Dilution Factor								
Duplicate 2 Prep DF								
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike Sample 1 (µg/mL)	6.39E+01	9.31E+01	7.12E+02	2.80E+03	8.37E+02	8.31E+02	5.95E+02	n/a
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	n/a
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	n/a
Std. Conc. (µg/mL)	59	79	634	814	546	631	578	n/a
Detection Limit	0.062	0.083	0.647	0.899	0.596	0.678	0.632	n/a
Matrix Detection Limit 1	6.42E+02	8.60E+02	5.67E+03	7.24E+03	6.19E+03	7.03E+03	6.55E+03	0.00E+00
Matrix Detection Limit 2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v		Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
	ERR	108.6%	102.9%	101.9%	102.4%	102.6%	103.0%	101.8%	ERR
Sample 1 in µg/g		<642.45	1.10E+03	1.81E+04	2.26E+05	2.68E+04	1.95E+04	<6548.89	<0.00
Duplicate 1 in µg/g		<851.68	1.26E+03	1.80E+04	2.18E+05	2.65E+04	1.91E+04	<6542.84	<0.00
Duplicate 1 RPD		N/A	13.9%	0.7%	3.4%	0.2%	2.3%	N/A	N/A
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	108.3%	104.2%	100.3%	97.7%	105.9%	101.6%	101.7%	ERR

Data Entry by: Jann Frye Date: 08/14/95

Approved by: Jann Frye Date: 8/14/95

Form DIONEX.WB1 Rev. 1.3

390

Sample Name: INSTR BLANK
Data File : C:\DX\DATA\95081121.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst :
Date: 08/11/1995 10:14:54
Detector:CDM-1
Column: AG4A/AS4A anion column/SRS

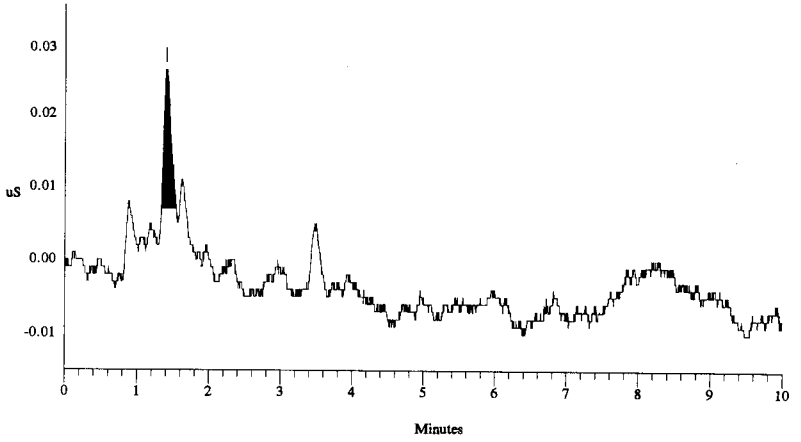
JW Ed Chow 3/4/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95081121.D01 Sample: INSTR BLANK



SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 391 TO 396.

Sample Name: PREP BLANK
Data File : C:\DX\DATA\95081121.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst :

Date: 08/11/1995 10:25:56

WHC-SD-WM-DP-154, REV. 0

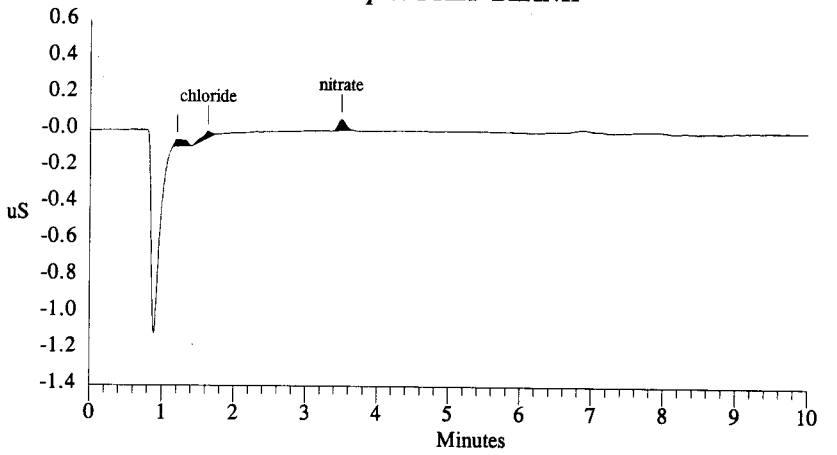
Detector:CDM-1
Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.20		0.000	35	352	1	
2	1.63	chloride	-0.006	34	308	1	-1.21
3	3.49	nitrate	0.087	60	436	1	4.18
		Totals	0.081	129	1096		

File: 95081121.D02 Sample: PREP BLANK



Sample Name: 100N9-B STD
Data File : C:\DX\DATA\95081121.D03
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3
Analyst : P.W. Cahn
Date: 08/11/1995 10:38:57
Detector:CDM-1
Column: AG4A/AS4A anion column/SRS

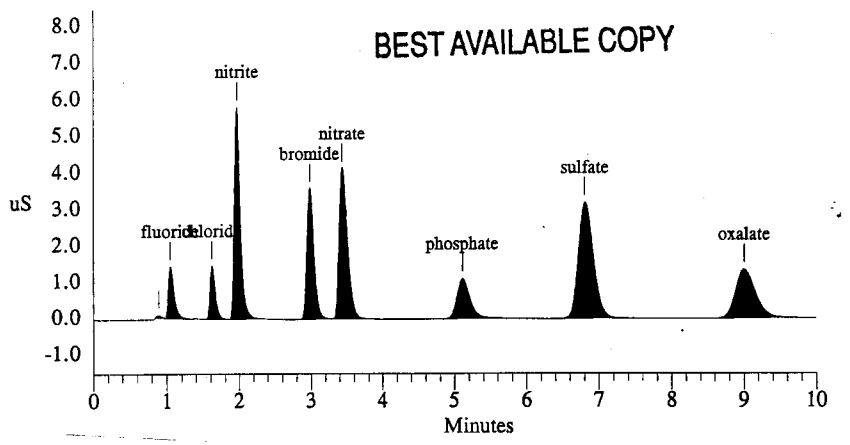
8/11/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	76	359	2	
2	1.05	fluoride	62.889	1431	7916	2	-0.94
3	1.62	chloride	81.342	1475	7742	1	-1.82
4	1.97	nitrite	544.315	5815	34789	1	-1.99
5	2.98	bromide	583.945	3583	24983	1	0.34
6	3.43	nitrate	628.629	4122	34737	1	2.39
7	5.11	phosphate	560.473	1114	14017	1	1.39
8	6.81	sulfate	650.448	3193	46561	1	1.79
9	9.01	oxalate	537.805	1355	26126	1	2.39
		Totals	3649.846	22164	197230		

File: 95081121.D03 Sample: 100N9-B STD



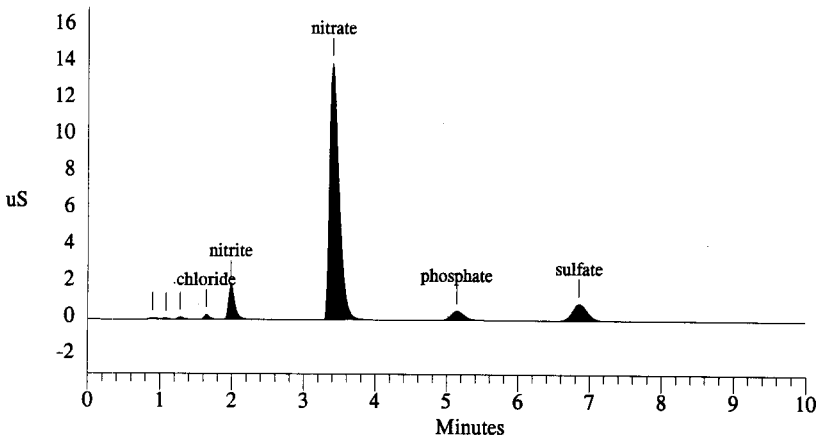
Sample Name: S95T001326		Date: 08/11/1995 10:54:40
Data File : C:\DX\DATA\95081121.D04		WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET		
ACI Address: 1 System: 1 Inject#: 4		Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column/SRS	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	53	284	2	
3	1.28		0.000	102	468	1	
4	1.64	chloride	10.702	254	1317	1	-0.61
5	1.98	nitrite	176.416	1821	10903	1	-1.49
6	3.40	nitrate	2195.305	13982	127824	1	1.49
7	5.14	phosphate	258.876	493	6160	1	1.98
8	6.85	sulfate	190.160	907	13168	1	2.39
		Totals	2831.459	17612	160125		

File: 95081121.D04 Sample: S95T001326



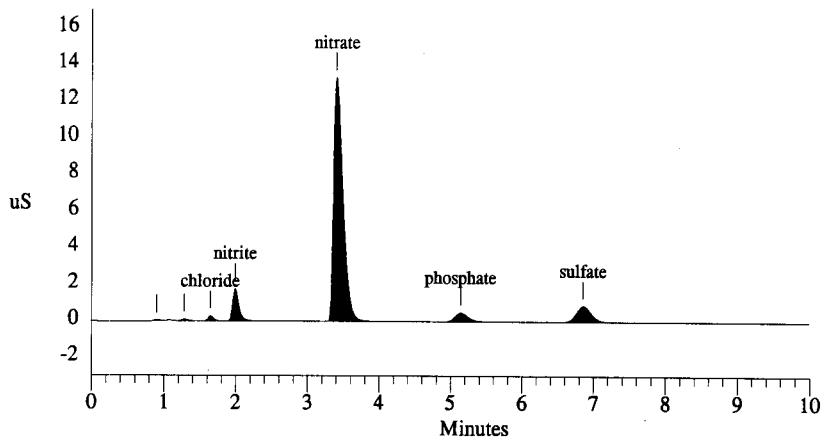
Sample Name: S95T001326 DUP Date: 08/11/1995 11:10:41
Data File : C:\DX\DATA\95081121.D05 WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	48	232	1	
2	1.28		0.000	96	407	1	
3	1.64	chloride	12.134	274	1446	1	-0.61
4	1.99	nitrite	172.710	1785	10665	1	-1.00
5	3.40	nitrate	2091.156	13271	121310	1	1.49
6	5.14	phosphate	254.542	484	6049	1	1.98
7	6.85	sulfate	183.185	868	12669	1	2.39
		Totals	2713.726	16825	152777		

File: 95081121.D05 Sample: S95T001326 DUP



Sample Name: S95T001326 + SPIKE Date: 08/11/1995 11:27:26
Data File : C:\DX\DATA\95081121.D07
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-154, REV. 0
ACI Address: 1 System: 1 Inject#: 7 Detector:CDM-1
Analyst : P.W. Cole Column: AG4A/AS4A anion column/SRS

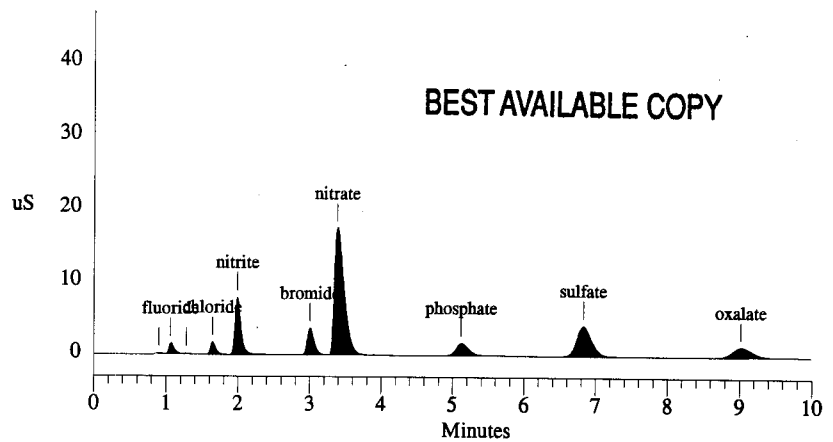
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	110	554	2	
2	1.06	fluoride	63.963	1473	8055	3	0.00
3	1.28		0.000	111	576	4	
4	1.64	chloride	93.057	1698	8826	1	-0.61
5	1.99	nitrite	712.006	7860	45854	1	-1.00
6	3.00	bromide	584.704	3660	25017	1	1.01
7	3.38	nitrate	2795.274	17337	166414	1	0.90
8	5.12	phosphate	836.911	1686	21381	1	1.59
9	6.83	sulfate	831.287	4163	59958	1	2.09
10	9.02	oxalate	544.940	1376	26490	1	2.50
		Totals	6462.143	39475	363126		

File: 95081121.D07 Sample: S95T001326 + SPIKE

BEST AVAILABLE COPY



LABCORE Completed Worklist Report for Worklist# 2104

Analyst: ehc **Instrument:** IC01 **Book#** 106N94

Method: LA-533-105 Rev/Mod D-6

Worklist Comment: BX-109 composite. bdv

Seq	Type	Sample#	R	A	Test	Matrix	Actual		Found	DL or Yield	Unit
1	BLNK-PREP			0	@IC-01	F-02	SOLID	1		<.062	ug/g
1	BLNK-PREP			0	@IC-01	CL-02	SOLID	1		<.083	ug/g
1	BLNK-PREP			0	@IC-01	NO2-02	SOLID	1		<.547	ug/g
1	BLNK-PREP			0	@IC-01	BR-02	SOLID	1		<.632	ug/g
1	BLNK-PREP			0	@IC-01	NO3-02	SOLID	1		<.699	ug/g
1	BLNK-PREP			0	@IC-01	PO4-02	SOLID	1		<.596	ug/g
1	BLNK-PREP			0	@IC-01	SO4-02	SOLID	1		<.678	ug/g
1	BLNK-PREP			0	@IC-01	OXALATE2	SOLID	1		<.469	ug/g
2	STD			0	@IC-01	F-02	SOLID	59		62.02	105.120 % Recovery
2	STD			0	@IC-01	CL-02	SOLID	79		79.31	100.390 % Recovery
2	STD			0	@IC-01	NO2-02	SOLID	519		545.4	105.090 % Recovery
2	STD			0	@IC-01	BR-02	SOLID	575		568.4	98.850 % Recovery
2	STD			0	@IC-01	NO3-02	SOLID	614		608.4	99.090 % Recovery
2	STD			0	@IC-01	PO4-02	SOLID	546		540.6	99.010 % Recovery
2	STD			0	@IC-01	SO4-02	SOLID	631		629.5	99.760 % Recovery
2	STD			0	@IC-01	OXALATE2	SOLID	581		540.1	92.960 % Recovery
3	SAMPLE	S95T001469	0	W	@IC-01	F-02	SOLID	N/A	<	266	266.000 ug/g
3	SAMPLE	S95T001469	0	W	@IC-01	CL-02	SOLID	N/A		1.25e03	352.000 ug/g
3	SAMPLE	S95T001469	0	W	@IC-01	NO2-02	SOLID	N/A		2.02e04	2.350e+003 ug/g
3	SAMPLE	S95T001469	0	W	@IC-01	BR-02	SOLID	N/A	<	2.71e03	2.710e+003 ug/g
3	SAMPLE	S95T001469	0	W	@IC-01	NO3-02	SOLID	N/A		2.03e05	3.000e+003 ug/g
3	SAMPLE	S95T001469	0	W	@IC-01	PO4-02	SOLID	N/A		2.24e04	2.440e+003 ug/g
3	SAMPLE	S95T001469	0	W	@IC-01	SO4-02	SOLID	N/A		1.84e04	2.910e+003 ug/g
3	SAMPLE	S95T001469	0	W	@IC-01	OXALATE2	SOLID	N/A	<	2.13e03	2.130e+003 ug/g
4	DUP	S95T001469	0	W	@IC-01	F-02	SOLID	<266		<273.62	RPD
4	DUP	S95T001469	0	W	@IC-01	CL-02	SOLID	1.25e03		1.20e03	4.080 RPD
4	DUP	S95T001469	0	W	@IC-01	NO2-02	SOLID	2.02e04		2.01e04	0.500 RPD
4	DUP	S95T001469	0	W	@IC-01	BR-02	SOLID	<2.71e3		<2.71e3	RPD
4	DUP	S95T001469	0	W	@IC-01	NO3-02	SOLID	2.03e05		2.03e05	0.000 RPD
4	DUP	S95T001469	0	W	@IC-01	PO4-02	SOLID	2.24e04		2.23e04	0.450 RPD
4	DUP	S95T001469	0	W	@IC-01	SO4-02	SOLID	1.84e04		1.82e04	1.090 RPD
4	DUP	S95T001469	0	W	@IC-01	OXALATE2	SOLID	<2128.04		<2188.99	RPD
5	SPK	S95T001469	0	W	@IC-01	CL-02	SOLID	100		88.1	88.100 % Recovery
5	SPK	S95T001469	0	W	@IC-01	F-02	SOLID	100		89.6	89.600 % Recovery
5	SPK	S95T001469	0	W	@IC-01	NO2-02	SOLID	100		91.9	91.900 % Recovery
5	SPK	S95T001469	0	W	@IC-01	BR-02	SOLID	100		78.5	78.500 % Recovery
5	SPK	S95T001469	0	W	@IC-01	NO3-02	SOLID	100		72.9	72.900 % Recovery
5	SPK	S95T001469	0	W	@IC-01	PO4-02	SOLID	100		87.8	87.800 % Recovery
5	SPK	S95T001469	0	W	@IC-01	SO4-02	SOLID	100		85.3	85.300 % Recovery
5	SPK	S95T001469	0	W	@IC-01	OXALATE2	SOLID	100		78.9	78.900 % Recovery

LABCORE Completed Worklist Report for Worklist# 2104

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit

Final page for worklist# 2104

Analyst Signature **Date**

Analyst Signature **Date**

Reviewer Signature **Date** 8/31/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 2104

Analyst: EC. **Instrument:** IC01 _____ **Book #** 106N9 A

Method: LA-533-105 Rev/Mod D-0

Worklist Comment: BX-109 composite. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			@IC-01	F-02	SOLID	1	< .062	N/A	ug/g
		1 BLNK-PREP			@IC-01	CL-02	SOLID	1	< .083	N/A	ug/g
		1 BLNK-PREP			@IC-01	NO2-02	SOLID	1	< .547	N/A	ug/g
		1 BLNK-PREP			@IC-01	BR-02	SOLID	1	.632 < .649	PJ 8-30-95 N/A	ug/g
		1 BLNK-PREP			@IC-01	NO3-02	SOLID	1	.699 < .546	PJ 8-30-95 N/A	ug/g
		1 BLNK-PREP			@IC-01	PO4-02	SOLID	1	.596 < .678	PJ 8-30-95 N/A	ug/g
		1 BLNK-PREP			@IC-01	SO4-02	SOLID	1	.678 < .652	PJ 8-30-95 N/A	ug/g
		1 BLNK-PREP			@IC-01	OXALATE2	SOLID	1	< .469	N/A	ug/g
		2 STD			@IC-01	F-02	SOLID	59	62.02	N/A	ug/g
		2 STD			@IC-01	CL-02	SOLID	79	79.31	N/A	ug/g
		2 STD			@IC-01	NO2-02	SOLID	519 76 PJ 8-30-95	545.4	N/A	ug/g
		2 STD			@IC-01	BR-02	SOLID	575	568.43	N/A	ug/g
		2 STD			@IC-01	NO3-02	SOLID	614 77 PJ 8-30-95	608.4	N/A	ug/g
		2 STD			@IC-01	PO4-02	SOLID	546	540.6	N/A	ug/g
		2 STD			@IC-01	SO4-02	SOLID	631	629.5	N/A	ug/g
		2 STD			@IC-01	OXALATE2	SOLID	581	540.1	N/A	ug/g
95000059	BX-109	3 SAMPLE	S95T001469	0 W	@IC-01	F-02	SOLID	N/A	< 266	2.66e2	ug/g
95000059	BX-109	3 SAMPLE	S95T001469	0 W	@IC-01	CL-02	SOLID	N/A	1.25E03	3.56e2	ug/g

Data Entry Comments:

Digest Wts SAM: 11.8870g/L Dup: 11.5560g/L

Try dil. factor of 51. Jmm

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2104

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	3 SAMPLE	S95T001469	0	W	@IC-01 NO2-02	SOLID	N/A	2.02E04	2.35e3	ug/g
95000059	BX-109	3 SAMPLE	S95T001469	0	W	@IC-01 BR-02	SOLID	N/A	~~1.01E03~~	~~3.00e3~~	ug/g
95000059	BX-109	3 SAMPLE	S95T001469	0	W	@IC-01 NO3-02	SOLID	N/A	2.03E05	~~2.44e3~~ 2.91e3	ug/g
95000059	BX-109	3 SAMPLE	S95T001469	0	W	@IC-01 PO4-02	SOLID	N/A	2.24E04	~~2.44e3~~ ~~2.91e3~~ 2.13e3	ug/g
95000059	BX-109	3 SAMPLE	S95T001469	0	W	@IC-01 SO4-02	SOLID	N/A	1.84E04	2.91e3	ug/g
95000059	BX-109	3 SAMPLE	S95T001469	0	W	@IC-01 OXALATE2	SOLID	N/A	2128.04	2.13e3	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 F-02	SOLID	2266	2273.62	N/A	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 CL-02	SOLID	1.25E03	1.20E03	N/A	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 NO2-02	SOLID	2.01E04	2.01E04	N/A	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 BR-02	SOLID	~~1.01E03~~	~~1.01E03~~	N/A	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 NO3-02	SOLID	2.03E05	2.03E05	N/A	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 PO4-02	SOLID	2.24E04	2.23E04	N/A	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 SO4-02	SOLID	1.84E04	1.82E04	N/A	ug/g
95000059	BX-109	4 DUP	S95T001469	0	W	@IC-01 OXALATE2	SOLID	2128.04	2128.99	N/A	ug/g
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 CL-02	SOLID	100	89.1	N/A	ug/g
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 F-02	SOLID	100	89.6	N/A	ug/g
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 NO2-02	SOLID	100	91.9	N/A	ug/g
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 BR-02	SOLID	100	78.5	N/A	ug/g
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 NO3-02	SOLID	100	72.9	N/A	ug/g
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 PO4-02	SOLID	100	87.8	N/A	ug/g
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 SO4-02	SOLID	100	85.3	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2104

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	5 SPK	S95T001469	0	W	@IC-01 OXALATE2	SOLID	100	78.9	N/A	ug/g

Final page for worklist # 2104

P.M. Cahn 8-30-95
Analyst Signature Date

R.E. Jones 8-30-95
Analyst Signature Date

Verified Jaxon M. Fuge 8/31/95

Data Entry Comments:

LMCS 106N9-A .100mL - 10mL

SPIKE 106N9-A .100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T001469		
TEST CODE:	N/A	ANALYST:	E COLVIN
INSTRUMENT:	KITMET	ANALYSIS DATE:	08/30/95
WORK LIST #:	2104	SAMPLE POINT:	BX-109
BATCH ID:	N/A	SAMPLE PREP:	H20DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
106N9A	105.1%	100.4%	105.1%	99.1%	99.0%	99.8%	98.9%	93.0%
S95T001469	<266.00	1.25E+03	2.02E+04	2.03E+05	2.24E+04	1.84E+04	~~1.01E+03~~	<2128.04
S95T001469DUP	<273.62	1.20E+03	2.01E+04	2.03E+05	2.23E+04	1.82E+04	~~1.06E+03~~	<2188.99
Duplicate 1 RPD	N/A	3.9%	0.7%	0.0%	0.4%	0.8%	4.6%	N/A
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T001469SPK	89.6%	88.1%	91.9%	72.9%	87.8%	85.3%	78.5%	78.9%

>2.71e3 gmF 8/31/95

<2.71e3 gmF 8/31/95

NARRATIVE: Analyst Comments:

Chemist Comments:

Form Completed By:		Date: 8-30-95
Chemist Approval:		Date: 8/31/95

402

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	SOLID
Test Code:	N/A
Work List #:	2104
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	106N9A
Spike Sample #:	1
Prepared By:	RC JONES
Prepared Date:	08/30/95
Chemist:	J. FRYE
Analyst:	E COLVIN
Analysis Date:	08/30/95
Time Complete:	08:47 AM
Instrument Code:	KITMET
Rerun:	0
Sample Prep:	H20DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	106N9A
SAMPLE 1	S95T001469
DUPLICATE 1	S95T001469DUP
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001469SPK
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.547	<.699	<.896	<.678	<.632	<.469
Standard Data (µg/mL)	62.016	79.313	546.383	608.392	640.61	629.45	568.429	540.061
Sample 1 Data (µg/mL)	<.062	1.48E+01	2.41E+02	2.41E+03	2.66E+02	2.18E+02	~~1.22E+01~~	<.469
Sample 1 Dilution Factor	51	51	51	51	51	51	51	51
Sample 1 Prep DF	11.887	11.887	11.887	11.887	11.887	11.887	11.887	11.887
Duplicate 1 Data (µg/mL)	<.062	1.39E+01	2.32E+02	2.35E+03	2.57E+02	2.11E+02	~~1.22E+01~~	<.469
Duplicate 1 Dilution Factor	51	51	51	51	51	51	51	51
Duplicate 1 Prep DF	11.556	11.556	11.556	11.556	11.556	11.556	11.556	11.556
Sample 2 Data (µg/mL)								
Sample 2 Dilution Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Dilution Factor								
Duplicate 2 Prep DF								
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	2.64E+01	4.96E+01	4.79E+02	2.64E+03	5.06E+02	4.87E+02	2.38E+02	2.29E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20
Std. Conc. (µg/mL)	59	79	519	614	546	531	575	561
Detection Limit	0.062	0.083	0.547	0.699	0.569	0.678	0.632	0.496
Matrix Detection Limit 1	2.66E+02	3.56E+02	2.35E+03	3.00E+03	2.44E+03	2.91E+03	2.71E+03	2.13E+03
Matrix Detection Limit 2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	105.1%	100.4%	106.1%	99.1%	99.0%	99.8%	88.9%	93.0%
Sample 1 in µg/g	<266.00	1.28E+03	2.02E+04	2.03E+05	2.24E+04	1.84E+04	~~1.015+05~~	<2128.04
Duplicate 1 in µg/g	<273.62	1.20E+03	2.01E+04	2.03E+05	2.23E+04	1.82E+04	~~1.065+03~~	<2188.99
Duplicate 1 RPD	N/A	3.9%	0.7%	0.0%	0.4%	0.8%	4.6%	N/A
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Spike % Recovery	89.6%	88.1%	91.9%	72.9%	87.8%	85.3%	78.5%	78.9%

Br value estimated at 1.01 e 3 1.06 e 3 dup. Both were below calib. curve. JMF 12/21/96

<2.71e3 JMF 8/31/95

Data Entry by: RC Jones Date: 08/30/95

Approved by: Jessie Fryer Date: 8/31/95

Form DIONEX WB1 Rev. 1.3

Sample Name: INSTR BLANK
Data File : C:\DX\DATA\95083011.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst :

Date: 08/30/1995 07:40:51

WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1
Column: AG4A/AS4A anion column/SRS

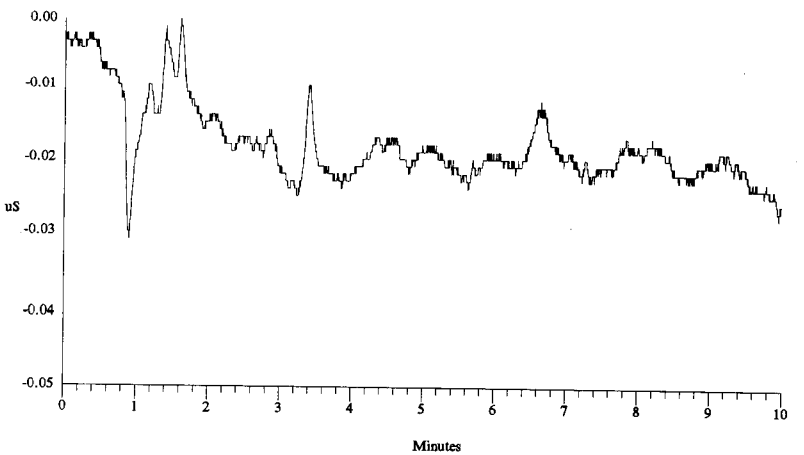
for Ed Colburn 3/4/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95083011.D01 Sample: INSTR BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 404 TO 410.

Sample Name: PREP BLANK
Data File : C:\DX\DATA\95083011.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Column: AG4A/AS4A anion column/SRS

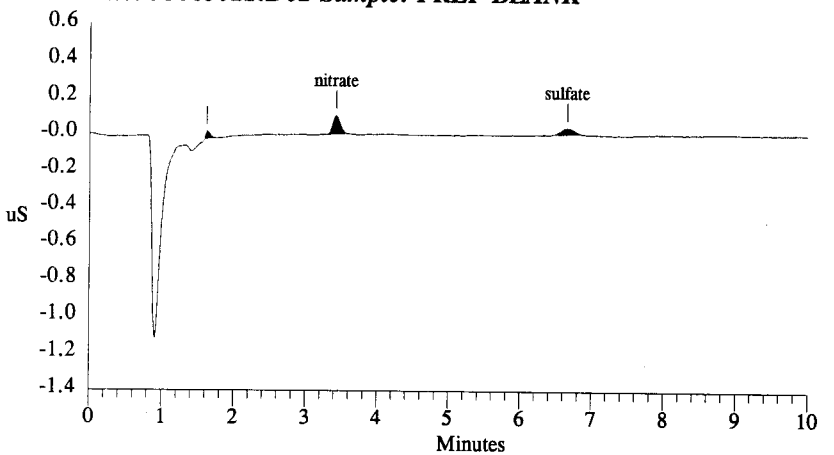
Date: 08/30/1995 07:51:54
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.42	nitrate	0.138	101	720	1	2.09
3	6.65	sulfate	0.104	34	398	1	-0.60
		Totals	0.243	134	1118		

File: 95083011.D02 Sample: PREP BLANK



Sample Name: 106N9-A STD
Data File : C:\DX\DATA\95083011.D03
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3
Analyst : P.A. Cohn

Date: 08/30/1995 08:02:54
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1
Column: AG4A/AS4A anion column/SRS

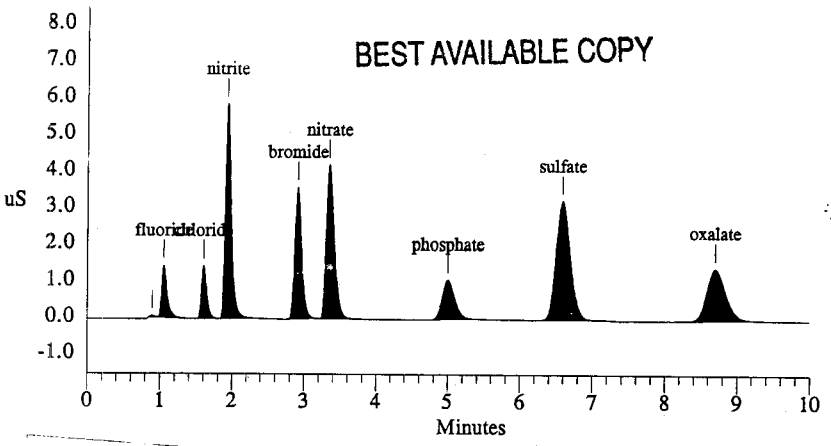
8/30/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	55	257	2	
2	1.05	fluoride	62.015	1422	7803	2	-0.94
3	1.60	chloride	79.313	1443	7555	1	-3.03
4	1.93	nitrite	545.363	5845	34858	1	-3.98
5	2.91	bromide	568.429	3586	24289	1	-2.02
6	3.34	nitrate	608.392	4189	33597	1	-0.30
7	5.00	phosphate	540.610	1088	13494	1	-0.79
8	6.59	sulfate	629.450	3237	45016	1	-1.49
9	8.70	oxalate	540.061	1430	26241	1	-1.14
		Totals	3573.632	22295	193109		

File: 95083011.D03 Sample: 106N9-A STD



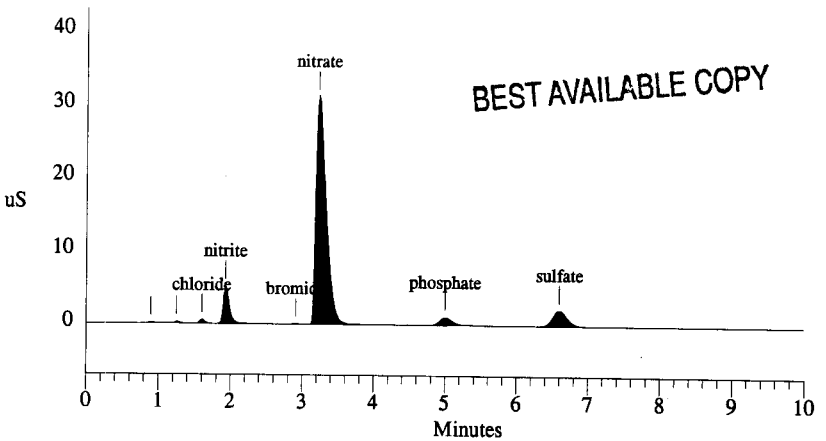
Sample Name: S95T001469 Date: 08/30/1995 08:16:51
Data File : C:\DX\DATA\95083011.D04
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-154, REV. 0
ACI Address: 1 System: 1 Inject#: 4 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	98	486	1	
2	1.25		0.000	232	1152	1	
3	1.60	chloride	14.849	574	3001	1	-3.03
4	1.93	nitrite	240.572	5175	30342	1	-3.98
5	2.91	bromide	12.021	64	390	1	-2.02
6	3.22	nitrate	2411.783	31127	310280	1	-3.88
7	5.00	phosphate	265.900	1068	13125	1	-0.79
8	6.60	sulfate	218.212	2189	30600	1	-1.35
		Totals	3163.336	40527	389375		

File: 95083011.D04 Sample: S95T001469



BEST AVAILABLE COPY

Sample Name: S95T001469 DUP
Data File : C:\DX\DATA\95083011.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst : Column: AG4A/AS4A anion column/SRS

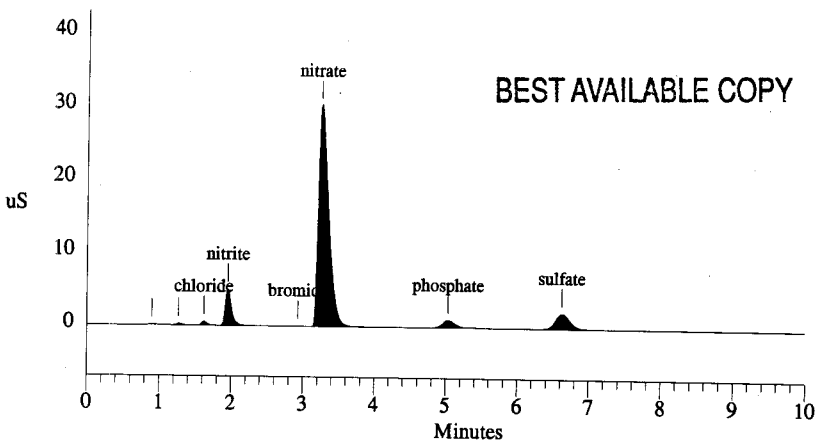
Date: 08/30/1995 08:34:28
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	89	459	1	
2	1.27		0.000	224	1094	1	
3	1.62	chloride	13.879	547	2827	1	-1.82
4	1.95	nitrite	232.179	4992	29255	1	-2.99
5	2.93	bromide	12.235	65	408	1	-1.35
6	3.24	nitrate	2345.508	30186	299755	1	-3.28
7	5.03	phosphate	257.373	1026	12681	1	-0.20
8	6.62	sulfate	210.538	2105	29497	1	-1.05
		Totals	3071.712	39234	375978		

File: 95083011.D05 Sample: S95T001469 DUP



Sample Name: S95T001469 + SPIKE
Data File : C:\DX\DATA\95083011.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst : C.W. Cohn
Column: AG4A/AS4A anion column/SRS

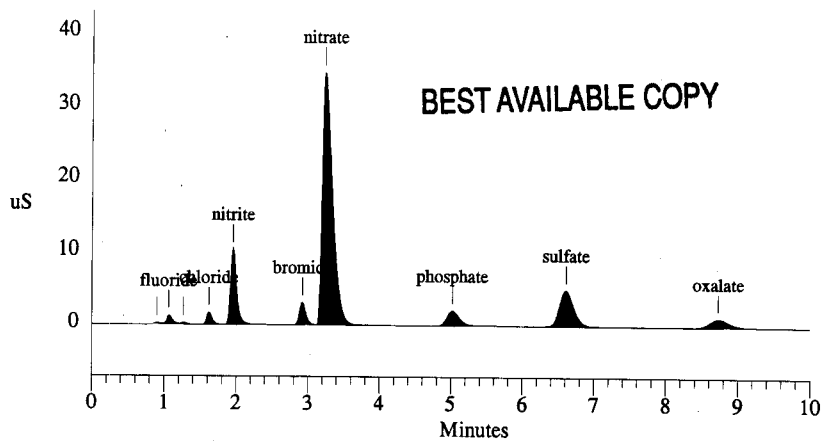
Date: 08/30/1995 08:47:40
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	138	683	2	
2	1.06	fluoride	26.441	1189	6560	2	0.00
3	1.26		0.000	252	1378	2	
4	1.62	chloride	49.634	1718	9312	1	-1.82
5	1.95	nitrite	479.016	10311	61667	1	-2.99
6	2.92	bromide	237.610	3107	19933	1	-1.68
7	3.23	nitrate	2635.454	34627	347165	1	-3.58
8	5.02	phosphate	505.710	2081	25845	1	-0.40
9	6.61	sulfate	487.250	5016	69967	1	-1.20
10	8.73	oxalate	229.189	1194	21848	1	-0.80
		Totals	4650.305	59632	564358		

File: 95083011.D06 Sample: S95T001469 + SPIKE



THE FOLLOWING ANALYSES ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

LABCORE Data Entry Template for Worklist# 1777

Analyst: EHC **Instrument:** IC01 _____ **Book #** 96N9B

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 water digest. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				@IC-01 F-02	SOLID	_____	<.06	N/A	ug/g
		1 BLNK-PREP				@IC-01 CL-02	SOLID	_____	<.08	N/A	ug/g
		1 BLNK-PREP				@IC-01 NO2-02	SOLID	_____	<.5	N/A	ug/g
		1 BLNK-PREP				@IC-01 BR-02	SOLID	_____	<.6	N/A	ug/g
		1 BLNK-PREP				@IC-01 NO3-02	SOLID	_____	<.7	N/A	ug/g
		1 BLNK-PREP				@IC-01 PO4-02	SOLID	_____	<.5	N/A	ug/g
		1 BLNK-PREP				@IC-01 SO4-02	SOLID	_____	<.7	N/A	ug/g
		1 BLNK-PREP				@IC-01 OXALATE2	SOLID	_____	<.5	N/A	ug/g
		2 STD				@IC-01 F-02	SOLID	59	56	N/A	ug/g
		2 STD				@IC-01 CL-02	SOLID	79	80.2	N/A	ug/g
		2 STD				@IC-01 NO2-02	SOLID	547	539	N/A	ug/g
		2 STD				@IC-01 BR-02	SOLID	575	541	N/A	ug/g
		2 STD				@IC-01 NO3-02	SOLID	614	608	N/A	ug/g
		2 STD				@IC-01 PO4-02	SOLID	546	510	N/A	ug/g
		2 STD				@IC-01 SO4-02	SOLID	631	612	N/A	ug/g
		2 STD				@IC-01 OXALATE2	SOLID	515	491	N/A	ug/g 7-19-95
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 F-02	SOLID	N/A	<3.12E+4 1.79E+5	3.12E+4	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 CL-02	SOLID	N/A	1.25	4.16	ug/g

DATA NOT USED IN PACKAGE

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1777

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 NO2-02	SOLID	N/A	1.60 E+6	2.60 E+5	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 NO3-02	SOLID	N/A	2.26 E+6	3.64 E+5	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 PO4-02	SOLID	N/A	2.45 E+6	2.60 E+5	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 SO4-02	SOLID	N/A	1.89 E+6	3.64 E+5	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 F-02	SOLID	<3.12 E+4	<2.99 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 CL-02	SOLID	1.25 E+5	1.12 E+5	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 NO2-02	SOLID	1.60 E+6	1.28 E+6	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 BR-02	SOLID	N/A E+7	N/A E+7	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 NO3-02	SOLID	2.26 E+6	1.72 E+6	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 PO4-02	SOLID	2.45 E+6	1.87 E+6	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 SO4-02	SOLID	1.89 E+6	1.47 E+6	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 CL-02	SOLID		96.3	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 F-02	SOLID		96.0	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 NO2-02	SOLID		87.8	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 BR-02	SOLID		91.4	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 NO3-02	SOLID		-31.9	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 PO4-02	SOLID		79.0	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 SO4-02	SOLID		85.1	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 OXALATE2	SOLID		95.2	N/A	ug/g
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 F-02	SOLID	N/A	<2.96 E+4	2.96 E+4	ug/g

DATA NOT USED IN PACKAGE

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1777

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 CL-02	SOLID	N/A	1.40 E+5	3.95 E+4	ug/g
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 NO2-02	SOLID	N/A	1.74 E+6	2.47 E+5	ug/g
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 NO3-02	SOLID	N/A	2.18 E+7	3.46 E+5	ug/g
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 PO4-02	SOLID	N/A	2.67 E+6	2.47 E+5	ug/g
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 SO4-02	SOLID	N/A	1.86 E+6	3.46 E+5	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 F-02	SOLID	<2.96 E+4	<2.93 E+4	N/A	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 CL-02	SOLID	1.40 E+5	1.09 E+5	N/A	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 NO2-02	SOLID	1.74 E+6	1.38 E+6	N/A	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 NO3-02	SOLID	2.18 E+7	1.74 E+7	N/A	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 PO4-02	SOLID	2.67 E+6	2.12 E+6	N/A	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 SO4-02	SOLID	1.86 E+6	1.47 E+6	N/A	ug/g
95000057	BX-109	7 DUP	S95T000982	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	8 SAMPLE	S95T000983	0	W	@IC-01 F-02	SOLID	N/A	7.39 E+4	2.99 E+4	ug/g
95000057	BX-109	8 SAMPLE	S95T000983	0	W	@IC-01 CL-02	SOLID	N/A	1.09 E+5	3.99 E+4	ug/g
95000057	BX-109	8 SAMPLE	S95T000983	0	W	@IC-01 NO2-02	SOLID	N/A	1.17 E+6	2.49 E+5	ug/g
95000057	BX-109	8 SAMPLE	S95T000983	0	W	@IC-01 NO3-02	SOLID	N/A	1.79 E+7	3.49 E+5	ug/g
95000057	BX-109	8 SAMPLE	S95T000983	0	W	@IC-01 PO4-02	SOLID	N/A	1.74 E+6	2.49 E+5	ug/g
95000057	BX-109	8 SAMPLE	S95T000983	0	W	@IC-01 SO4-02	SOLID	N/A	1.53 E+6	3.49 E+5	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01 F-02	SOLID	7.39 E+4	7.08 E+4	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01 CL-02	SOLID	1.09 E+5	1.07 E+5	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01 NO2-02	SOLID	1.17 E+6	1.13 E+6	N/A	ug/g

DATA NOT USED IN PACKAGE

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1777

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	9 DUP	S95T000983	0	W	AIC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	AIC-01	NO3-02	SOLID	1.79 E+7	1.71 E+7	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	AIC-01	PO4-02	SOLID	1.74 E+6	1.65 E+6	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	AIC-01	SO4-02	SOLID	1.53 E+6	1.46 E+6	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	AIC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g

Final page for worklist # 1777

J. M. Fuyo for Ed Colvin 7/21/95
Analyst Signature Date
see attached original for signature.

Analyst Signature Date

Verified 7/21/95
Put out for re-run 7/21/95 on WKL 1825. J. M. Fuyo

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1777

Analyst: EC **Instrument:** IC01 _____ **Book #** 96N9-B

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX-109 water digest. JMF Please inspect samples for presence of organic layers. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				@IC-01 F-02	SOLID	_____	<.06	N/A	ug/g
		1	BLNK-PREP				@IC-01 CL-02	SOLID	_____	<.08	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO2-02	SOLID	_____	<.5	N/A	ug/g
		1	BLNK-PREP				@IC-01 BR-02	SOLID	_____	<.6	N/A	ug/g
		1	BLNK-PREP				@IC-01 NO3-02	SOLID	_____	<.7	N/A	ug/g
		1	BLNK-PREP				@IC-01 PO4-02	SOLID	_____	<.5	N/A	ug/g
		1	BLNK-PREP				@IC-01 SO4-02	SOLID	_____	<.7	N/A	ug/g
		1	BLNK-PREP				@IC-01 OXALATE2	SOLID	_____	<.5	N/A	ug/g
		2	STD				@IC-01 F-02	SOLID	59	56	N/A	ug/g
		2	STD				@IC-01 CL-02	SOLID	79	80.2	N/A	ug/g
		2	STD				@IC-01 NO2-02	SOLID	547	539	N/A	ug/g
		2	STD				@IC-01 BR-02	SOLID	575	541	N/A	ug/g
		2	STD				@IC-01 NO3-02	SOLID	614	608	N/A	ug/g
		2	STD				@IC-01 PO4-02	SOLID	546	510	N/A	ug/g
		2	STD				@IC-01 SO4-02	SOLID	631	612	N/A	ug/g
		2	STD				@IC-01 OXALATE2	SOLID	515	491	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000981	0	W	@IC-01 F-02	SOLID	DATA NOT IN PACKAGE	1.77 E-2		ug/g
95000057	BX-109	3	SAMPLE	S95T000981	0	W	@IC-01 CL-02	SOLID	N/A	1.24 E+3		ug/g

Data Entry Comments: This was calculated as a liquid; attached Worklist is correct

LMCS 96N9-B .100mL-10mL

SPIKE 96N9-B .100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1777

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 NO2-02	SOLID	N/A	1.59 E+4	1.59 E+4	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 NO3-02	SOLID	N/A	2.24 E+5	2.24 E+5	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 PO4-02	SOLID	N/A	2.43 E+4	2.43 E+4	ug/g
95000057	BX-109	3 SAMPLE	S95T000981	0	W	@IC-01 SO4-02	SOLID	N/A	1.87 E+4	1.87 E+4	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 F-02	SOLID	1.77 E+2	<3.09 E+2	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 CL-02	SOLID	1.24 E+3	1.16 E+3	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 NO2-02	SOLID	1.59 E+4	1.32 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 BR-02	SOLID	~~2.24~~ E+5	N/A	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 NO3-02	SOLID	~~2.24~~ E+5	1.78 E+5	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 PO4-02	SOLID	2.43 E+4	1.93 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 SO4-02	SOLID	1.87 E+4	1.52 E+4	N/A	ug/g
95000057	BX-109	4 DUP	S95T000981	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 CL-02	SOLID		96.3	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 F-02	SOLID		90.0	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 NO2-02	SOLID		87.7	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 BR-02	SOLID		91.5	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 NO3-02	SOLID		-32.4	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 PO4-02	SOLID		78.9	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 SO4-02	SOLID		85.1	N/A	ug/g
95000057	BX-109	5 SPK	S95T000981	0	W	@IC-01 OXALATE2	SOLID		95.3	N/A	ug/g
95000057	BX-109	6 SAMPLE	S95T000982	0	W	@IC-01 F-02	SOLID	N/A	<309		ug/g

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL_y = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1777

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND E+3	DL	UNIT
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01	CL-02	SOLID	N/A	1.46		ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01	NO2-02	SOLID	N/A	1.82 E+4		ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01	NO3-02	SOLID	N/A	2.27 E+5		ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01	PO4-02	SOLID	N/A	2.78 E+4		ug/g
95000057	BX-109	6	SAMPLE	S95T000982	0	W	@IC-01	SO4-02	SOLID	N/A	1.94 E+4		ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	F-02	SOLID	<309	<309	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	CL-02	SOLID	1.46 E+3	1.15 E+3	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	NO2-02	SOLID	182 E+4	1.45 E+4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	NO3-02	SOLID	2.27 E+5	1.83 E+5	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	PO4-02	SOLID	2.78 E+4	2.24 E+4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	SO4-02	SOLID	1.94 E+4	1.55 E+4	N/A	ug/g
95000057	BX-109	7	DUP	S95T000982	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01	F-02	SOLID	N/A	7.64 E+4		ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01	CL-02	SOLID	N/A	1.13 E+3		ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01	NO2-02	SOLID	N/A	1.21 E+4		ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01	NO3-02	SOLID	N/A	1.85 E+5		ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01	PO4-02	SOLID	N/A	1.80 E+4		ug/g
95000057	BX-109	8	SAMPLE	S95T000983	0	W	@IC-01	SO4-02	SOLID	N/A	1.58 E+4		ug/g
95000057	BX-109	9	DUP	S95T000983	0	W	@IC-01	F-02	SOLID	7.64 E+4	7.46 E+4	N/A	ug/g
95000057	BX-109	9	DUP	S95T000983	0	W	@IC-01	CL-02	SOLID	1.13 E+3	1.13 E+3	N/A	ug/g
95000057	BX-109	9	DUP	S95T000983	0	W	@IC-01	NO2-02	SOLID	1.21 E+4	1.19 E+4	N/A	ug/g

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1777

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	NO3-02	SOLID	1.85 E+5	1.80 E+5	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	PO4-02	SOLID	1.80 E+4	1.74 E+4	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	SO4-02	SOLID	1.58 E+4	1.54 E+4	N/A	ug/g
95000057	BX-109	9 DUP	S95T000983	0	W	@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g

Final page for worklist # 1777

Analyst Signature 7-12-95 Date

Analyst Signature 7-21-95 Date

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000981 & S95TOOO982 & S95T000983		
TEST CODE:	@IC-01	ANALYST:	E COLVIN
INSTRUMENT:	IC01	ANALYSIS DATE:	07/12/95
WORK LIST #:	1777	SAMPLE POINT:	BX-109
BATCH ID:		SAMPLE PREP:	H2O DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
STD	94.9%	101.5%	98.5%	99.0%	93.4%	97.0%	94.1%	95.3%
S95T000981	<31183.53	1.25E+05	1.60E+06	2.26E+07	2.45E+06	1.89E+06	<311835.33	<259862.78
S95T000981DUP	<29941.87	1.12E+05	1.28E+06	1.72E+07	1.87E+06	1.47E+06	<299418.72	<249515.60
Duplicate 1 RPD	N/A	10.7%	22.6%	26.9%	26.9%	24.7%	N/A	N/A
S95TOOO982	<29631.83	1.40E+05	1.74E+06	2.18E+07	2.67E+06	1.86E+06	<296318.31	<246931.93
S95T000982DUP	<29317.02	1.09E+05	1.38E+06	1.74E+07	2.12E+06	1.47E+06	<293170.18	<244308.48
Duplicate 2 RPD	N/A	24.8%	23.7%	22.5%	22.6%	23.4%	N/A	N/A
S95T000983	7.39E+04	1.09E+05	1.17E+06	1.79E+07	1.74E+06	1.53E+06	<298926.40	<249105.33
S95T000983DUP	7.08E+04	1.07E+05	1.13E+06	1.71E+07	1.65E+06	1.46E+06	<293225.81	<244354.84
Duplicate 3 RPD	4.3%	1.9%	3.6%	4.7%	5.3%	4.5%	N/A	N/A
S95T000981SPK	96.0%	96.3%	87.8%	-31.9%	79.0%	85.1%	91.4%	95.2%

NARRATIVE: Analyst Comments:

Chemist Comments:

DATA
NOT USED
IN PACKAGE

Form Completed By:		Date:
Chemist Approval:		Date: 7/21/95

LAB LEADER INFO	
Method:	LA-533-106
Matrix:	SOLID
Test Code:	@IC-01
Work List #:	1777
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9B
Spike Sample #:	1
Prepared By:	RW STORM
Prepared Date:	07/19/95
Chemist:	J FRYE
Analyst:	E COLVIN
Analysis Date:	07/12/95
Time Complete:	11:06 AM
Instrument Code:	IC01
Rerun:	
Sample Prep:	H2O DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	STD
SAMPLE 1	S95T000981
DUPLICATE 1	S95T000981DUP
SAMPLE 2	S95TOOO982
DUPLICATE 2	S95T000982DUP
SAMPLE 3	S95T000983
DUPLICATE 3	S95T000983DUP
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000981SPK
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.06	<.08	<.6	<.7	<.5	<.7	<.6	<.6

Standard Data (µg/mL)	56	80.2	539	608	510	612	541	491
Sample 1 Data (µg/mL)	<3.12E4	1.34E+03	1.59E+04	2.24E+05	2.43E+04	1.87E+04	<3.12E+5	<2.60E+5
Sample 1 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Sample 1 Prep DF	9.911	9.911	9.911	9.911	9.911	9.911	9.911	9.911
Duplicate 1 Data (µg/mL)	<3.12E4	1.16E+03	1.32E+04	1.78E+05	1.93E+04	1.52E+04	<3.12E+5	<2.60E+5
Duplicate 1 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Duplicate 1 Prep DF	10.322	10.322	10.322	10.322	10.322	10.322	10.322	10.322
Sample 2 Data (µg/mL)	<3.12E+4	1.46E+03	1.82E+04	2.27E+05	2.78E+04	1.94E+04	<3.12E+5	<2.60E+5
Sample 2 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Sample 2 Prep DF	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43
Duplicate 2 Data (µg/mL)	<3.12E+4	1.15E+03	1.45E+04	1.83E+05	2.24E+04	1.55E+04	<3.12E+5	<2.60E+5
Duplicate 2 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Duplicate 2 Prep DF	10.542	10.542	10.542	10.542	10.542	10.542	10.542	10.542
Sample 3 Data (µg/mL)	7.64E+02	1.13E+03	1.21E+04	1.85E+05	1.80E+04	1.58E+04	<3.12E+5	<2.60E+5
Sample 3 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Sample 3 Prep DF	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339
Duplicate 3 Data (µg/mL)	7.46E+02	1.13E+03	1.19E+04	1.80E+05	1.74E+04	1.54E+04	<3.12E+5	<2.60E+5
Duplicate 3 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Duplicate 3 Prep DF	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	2.89E+03	5.12E+03	4.04E+04	2.14E+05	4.63E+04	4.61E+04	2.68E+04	2.50E+04
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	59	79	547	614	546	631	575	515
Detection Limit	0.060	0.080	0.500	0.700	0.500	0.700	0.500	0.500
Matrix Detection Limit 1	3.12E+04	4.16E+04	2.60E+05	3.64E+05	2.60E+05	3.64E+05	3.12E+05	2.60E+05
Matrix Detection Limit 2	2.96E+04	3.95E+04	2.47E+05	3.46E+05	2.47E+05	3.46E+05	2.96E+05	2.47E+05
Matrix Detection Limit 3	2.99E+04	3.99E+04	2.49E+05	3.49E+05	2.49E+05	3.49E+05	2.99E+05	2.49E+05
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

DATA NOT USED IN PACKAGE

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*((Spike Std.)*(Sample DF)))]* 100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample...
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	94.9%	101.5%	98.5%	99.0%	93.4%	97.0%	94.1%	96.3%
Sample 1 in µg/g	<31183.83	1.28E+06	1.60E+06	2.26E+07	2.48E+06	1.89E+06	<311838.33	<259862.78
Duplicate 1 in µg/g	<29941.87	1.12E+06	1.28E+06	1.72E+07	1.87E+06	1.47E+06	<299418.72	<249515.60
Duplicate 1 RPD	N/A	10.7%	22.6%	26.9%	26.9%	24.7%	N/A	N/A
Sample 2 in µg/g	<29631.83	1.40E+06	1.74E+06	2.18E+07	2.67E+06	1.86E+06	<296318.31	<246931.93
Duplicate 2 in µg/g	<29317.02	1.09E+06	1.38E+06	1.74E+07	2.12E+06	1.47E+06	<293170.18	<244308.48
Duplicate 2 RPD	N/A	24.8%	23.7%	22.5%	22.6%	23.4%	N/A	N/A
Sample 3 in µg/g	7.39E+04	1.09E+06	1.17E+06	1.79E+07	1.74E+06	1.53E+06	<298926.40	<249105.33
Duplicate 3 in µg/g	7.08E+04	1.07E+06	1.13E+06	1.71E+07	1.65E+06	1.46E+06	<293226.81	<244354.84
Duplicate 3 RPD	4.3%	1.9%	3.6%	4.7%	5.3%	4.5%	N/A	N/A
Spike % Recovery	98.0%	96.3%	97.8%	-31.9%	79.0%	88.1%	91.4%	95.2%

Data Entry by: [signature]
Approved by: [signature]
Form DIONEX.WB1 Rev. 1.3

Date: 07/19/95
Date: 7/21/95

420

circled dosage data entry error

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	SOLID
Test Code:	@IC-01
Work List #:	1777
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9B
Spike Sample #:	1
Prepared By:	RW STORM
Prepared Date:	07/19/95
Chemist:	J FRYE
Analyst:	E COLVIN
Analysis Date:	07/12/95
Time Complete:	11:06 AM
Instrument Code:	IC01
Rerun:	
Sample Prep:	H2O DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	STD
SAMPLE 1	S95T000981
DUPLICATE 1	S95T000981DUP
SAMPLE 2	S95T000982
DUPLICATE 2	S95T000982DUP
SAMPLE 3	S95T000983
DUPLICATE 3	S95T000983DUP
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000981SPK
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.06	<.08	<.5	<.7	<.5	<.7	<.6	<.5
Standard Data (µg/mL)	56	80.2	539	608	510	612	541	491
Sample 1 Data (µg/mL)	<3.12E4	1.24E+03	1.59E+04	2.24E+05	2.43E+04	1.87E+04	<3.12E+5	<2.60E+5
Sample 1 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Sample 1 Prep DF	9.911	9.911	9.911	9.911	9.911	9.911	9.911	9.911
Duplicate 1 Data (µg/mL)	<3.12E+4	1.16E+03	1.32E+04	1.78E+05	1.93E+04	1.52E+04	<3.12E+5	<2.60E+5
Duplicate 1 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Duplicate 1 Prep DF	10.322	10.322	10.322	10.322	10.322	10.322	10.322	10.322
Sample 2 Data (µg/mL)	<3.12E+4	1.46E+03	1.82E+04	2.27E+05	2.78E+04	1.94E+04	<3.12E+5	<2.60E+5
Sample 2 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Sample 2 Prep DF	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43
Duplicate 2 Data (µg/mL)	<3.12E+4	1.15E+03	1.45E+04	1.83E+05	2.24E+04	1.55E+04	<3.12E+5	<2.60E+5
Duplicate 2 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Duplicate 2 Prep DF	10.542	10.542	10.542	10.542	10.542	10.542	10.542	10.542
Sample 3 Data (µg/mL)	7.64E+02	1.13E+03	1.21E+04	1.85E+05	1.80E+04	1.58E+04	<3.12E+5	<2.60E+5
Sample 3 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Sample 3 Prep DF	10.339	10.339	10.339	10.339	10.339	10.339	10.339	10.339
Duplicate 3 Data (µg/mL)	7.46E+02	1.13E+03	1.19E+04	1.80E+05	1.74E+04	1.54E+04	<3.12E+5	<2.60E+5
Duplicate 3 Dilution Factor	5151	5151	5151	5151	5151	5151	5151	5151
Duplicate 3 Prep DF	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	2.89E+03	5.12E+03	4.04E+04	2.14E+05	4.63E+04	4.61E+04	2.68E+04	2.50E+04
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	59	79	547	614	546	631	575	515
Detection Limit	0.060	0.080	0.500	0.700	0.500	0.700	0.600	0.500
Matrix Detection Limit 1	3.12E+04	4.16E+04	2.60E+05	3.64E+05	2.60E+05	3.64E+05	3.12E+05	2.60E+05
Matrix Detection Limit 2	2.96E+04	3.95E+04	2.47E+05	3.46E+05	2.47E+05	3.46E+05	2.96E+05	2.47E+05
Matrix Detection Limit 3	2.99E+04	3.99E+04	2.49E+05	3.49E+05	2.49E+05	3.49E+05	2.99E+05	2.49E+05
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

DATA NOT USED PACKAGE

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

The values for some of the analytes are coming out higher than they should be & something is eating the spike.

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	94.9%	101.5%	98.5%	99.0%	93.4%	97.0%	94.1%	95.3%
Sample 1 in µg/g	<31183.53	1.25E+05	1.60E+06	2.26E+07	2.45E+06	1.89E+06	<311835.33	<259862.78
Duplicate 1 in µg/g	<29941.87	1.12E+05	1.28E+06	1.72E+07	1.87E+06	1.47E+06	<299418.72	<249515.60
Duplicate 1 RPD	N/A	10.7%	22.6%	26.9%	26.9%	24.7%	N/A	N/A
Sample 2 in µg/g	<29631.83	1.40E+05	1.74E+06	2.18E+07	2.67E+06	1.86E+06	<296318.31	<246931.93
Duplicate 2 in µg/g	<29317.02	1.09E+05	1.38E+06	1.74E+07	2.12E+06	1.47E+06	<293170.18	<244308.48
Duplicate 2 RPD	N/A	24.8%	23.7%	22.5%	22.6%	23.4%	N/A	N/A
Sample 3 in µg/g	7.39E+04	1.09E+05	1.17E+06	1.79E+07	1.74E+06	1.53E+06	<298826.40	<249106.33
Duplicate 3 in µg/g	7.08E+04	1.07E+05	1.13E+06	1.71E+07	1.65E+06	1.46E+06	<293225.81	<244364.84
Duplicate 3 RPD	4.3%	1.9%	3.6%	4.7%	5.3%	4.5%	N/A	N/A
Spike % Recovery	96.0%	96.3%	87.8%	-31.9%	79.0%	85.1%	91.4%	95.2%

Data Entry by: _____ Date: 07/19/95

Approved by: _____ Date: _____

Form DIONEX.WB1 Rev. 1.3

Sample Name:	INSTR BLANK
Data File :	C:\DX\DATA\95071231.D05
Method :	C:\DX\METHOD\KIT.MET
ACI Address:	1 System: 1 Inject#: 5
Analyst :	Column:

Date: 07/12/1995 06:31:13

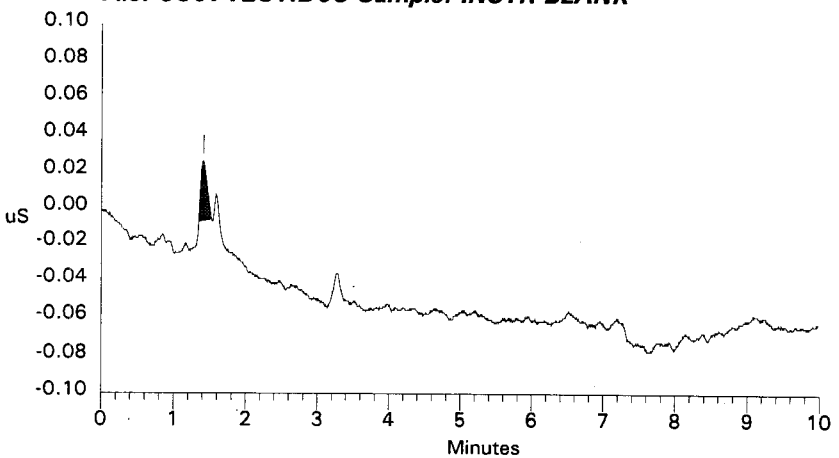
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95071231.D05 Sample: INSTR BLANK



SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES _____TO ____.

DATA
NOT USED
IN PACKAGE

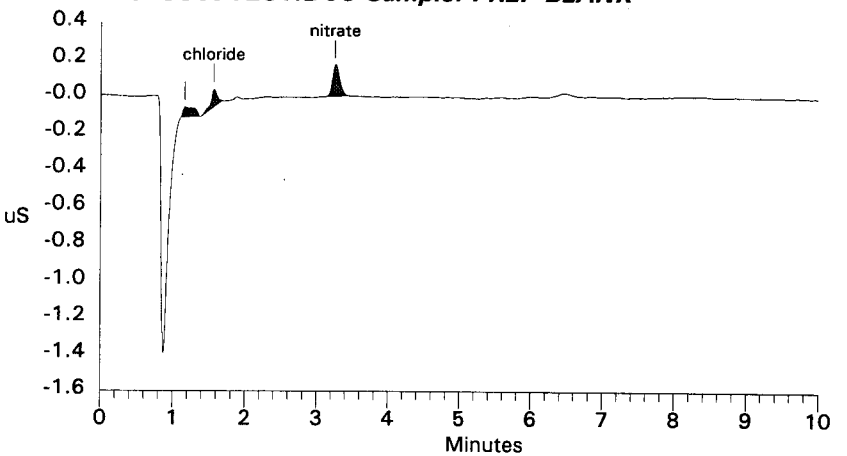
Sample Name: PREP BLANK Date: 07/12/1995 06:43:23
Data File : C:\DX\DATA\95071231.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.16		0.000	51	562	1	
2	1.56	chloride	0.049	94	541	1	1.96
3	3.25	nitrate	0.469	168	1195	1	1.56
		Totals	0.518	313	2298		

File: 95071231.D06 Sample: PREP BLANK



DATA
NOT USED
IN PACKAGE

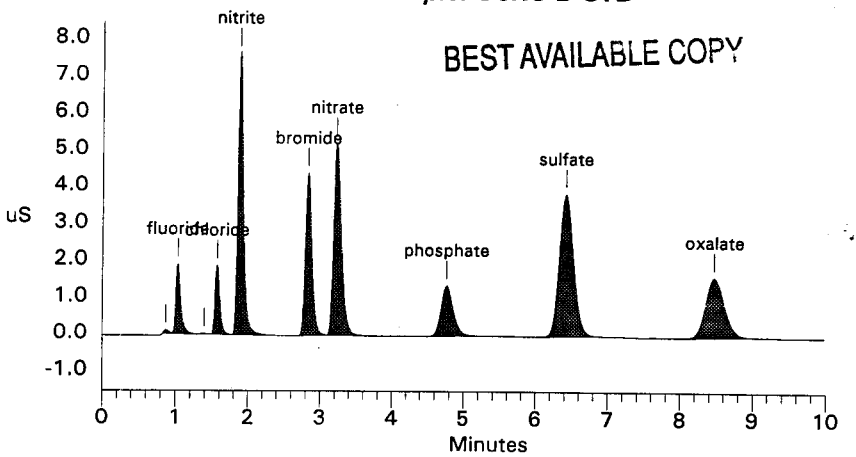
Sample Name: 96N9-B STD Date: 07/12/1995 07:23:39
Data File : C:\DX\DATA\95071231.D09
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9 Detector:CDM-1
Analyst : E.W. Colvin Column:
7/12/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	90	405	2	
2	1.03	fluoride	55.985	1886	8945	2	1.98
4	1.57	chloride	80.206	1866	8852	1	2.61
5	1.88	nitrite	539.442	7620	41582	1	1.62
6	2.83	bromide	541.077	4399	28201	1	1.07
7	3.22	nitrate	607.501	5213	39561	1	0.63
8	4.76	phosphate	510.439	1368	16476	1	-0.83
9	6.42	sulfate	611.567	3851	53124	1	-1.68
10	8.47	oxalate	491.052	1623	29613	1	-1.51
		Totals	3437.270	27918	226758		

File: 95071231.D09 Sample: 96N9-B STD



BEST AVAILABLE COPY

DATA NOT USED IN PACKAGE

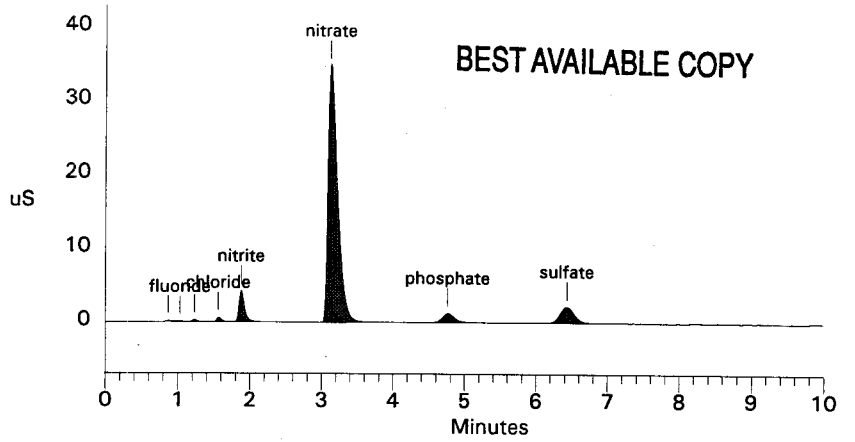
Sample Name: S95T000981		Date: 07/12/1995 08:13:55
Data File : C:\DX\DATA\95071231.D11		WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET		
ACI Address: 1 System: 1 Inject#: 11		Detector:CDM-1
Analyst :	Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	120	577	2	
2	1.03	fluoride	177.267	62	257	2	1.98
3	1.23		0.000	280	1232	1	
4	1.56	chloride	1412.571	626	3038	1	1.96
5	1.88	nitrite	15899.870	4257	23234	1	1.62
6	3.12	nitrate	224136.683	34714	326522	1	-2.50
7	4.76	phosphate	24298.681	1259	15299	1	-0.83
8	6.43	sulfate	18738.477	2234	31016	1	-1.53
		Totals	284663.548	43551	401176		

File: 95071231.D11 Sample: S95T000981



BEST AVAILABLE COPY

DATA NOT USED IN PACKAGE

Sample Name: S95T000981 DUP Date: 07/12/1995 08:26:23
Data File : C:\DX\DATA\95071231.D12
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12 Detector:CDM-1
Analyst : Column:

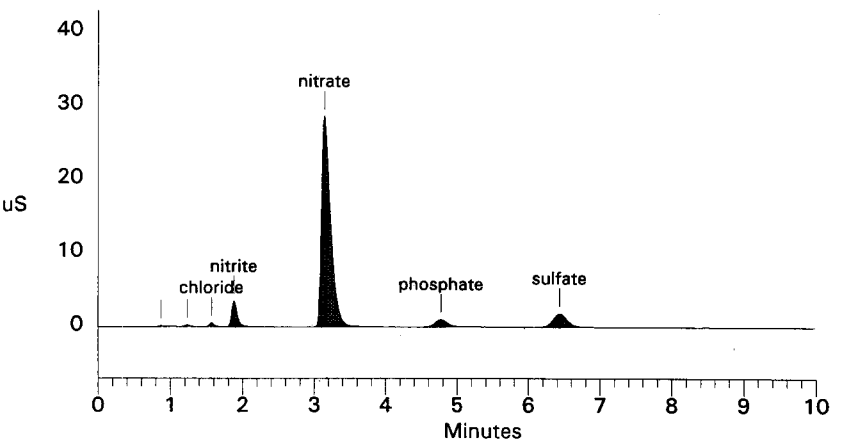
WHC-SD-WM-DP-154, REV. 0

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	102	486	1	
2	1.23		0.000	220	950	1	
3	1.57	chloride	1162.686	531	2499	1	2.61
4	1.88	nitrite	13161.892	3428	18911	1	1.62
5	3.14	nitrate	178469.452	28502	253577	1	-1.87
6	4.77	phosphate	19259.493	989	11890	1	-0.63
7	6.43	sulfate	15176.674	1789	24742	1	-1.53
		Totals	227230.197	35561	313055		

File: 95071231.D12 Sample: S95T000981 DUP



DATA USED PACKAGE

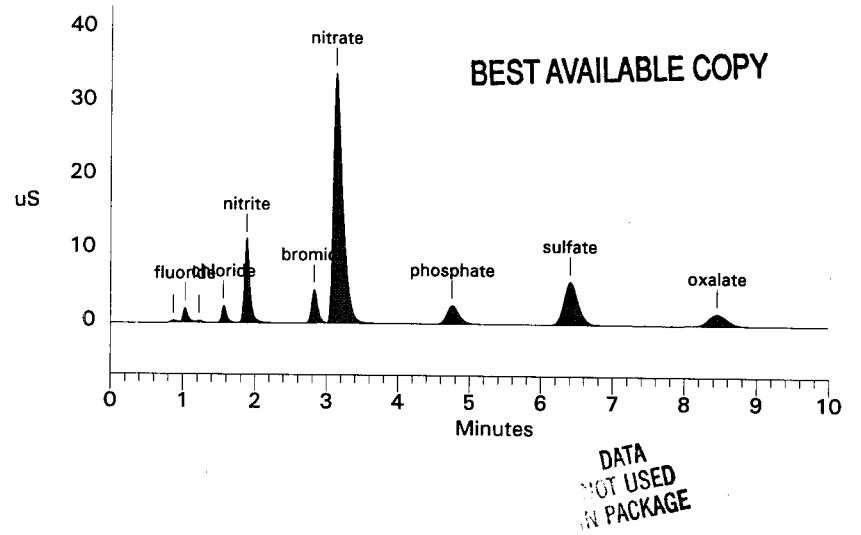
Sample Name: S95T000981 + SPIKE	Date: 07/12/1995 08:38:49	
Data File : C:\DX\DATA\95071231.D13	WHC-SD-WM-DP-154, REV. 0	
Method : C:\DX\METHOD\KIT.MET		
ACI Address: 1 System: 1 Inject#: 13	Detector:CDM-1	
Analyst : Column:		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	186	881	2	
2	1.03	fluoride	2885.555	1890	9044	3	1.98
3	1.22		0.000	237	1137	4	
4	1.56	chloride	5120.206	2259	11104	1	1.96
5	1.88	nitrite	40362.367	11377	61911	1	1.62
6	2.82	bromide	26834.221	4471	27369	1	0.71
7	3.12	nitrate	214001.881	33864	310006	1	-2.50
8	4.75	phosphate	46265.913	2492	30385	1	-1.04
9	6.40	sulfate	46122.711	5816	80003	1	-1.99
10	8.45	oxalate	25033.455	1623	29600	1	-1.74
		Totals	406626.310	64215	561440		

File: 95071231.D13 Sample: S95T000981 + SPIKE



BEST AVAILABLE COPY

DATA NOT USED IN PACKAGE

Sample Name: S95T000982
Data File : C:\DX\DATA\95071231.D14
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14
Analyst : Column:

Date: 07/12/1995 10:27:08
WHC-SD-WM-DP-154, REV. 0

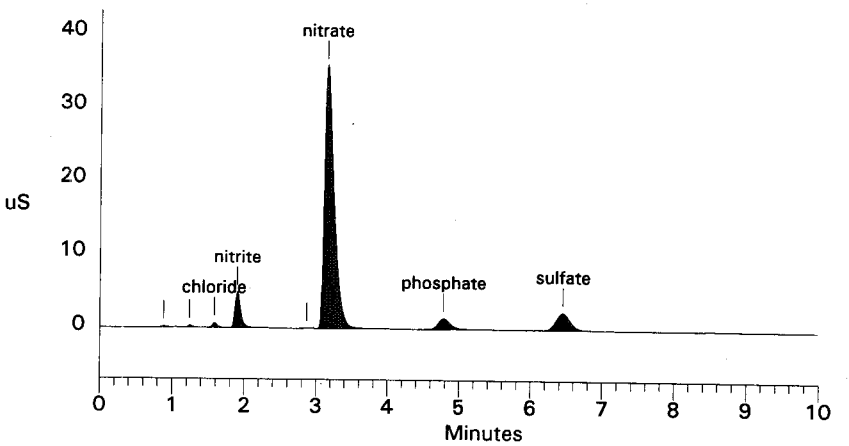
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	137	670	1	
2	1.24		0.000	271	1217	1	
3	1.58	chloride	1455.776	635	3131	1	3.27
4	1.90	nitrite	18156.399	4764	26798	1	2.70
6	3.14	nitrate	226531.699	35560	330454	1	-1.87
7	4.78	phosphate	27761.609	1460	17652	1	-0.42
8	6.45	sulfate	19373.935	2322	32138	1	-1.23
		Totals	293279.417	45149	412060		

File: 95071231.D14 Sample: S95T000982



DATA NOT USED IN PACKAGE

Sample Name: S95T000982 DUP
Data File : C:\DX\DATA\95071231.D15
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15
Analyst : Column:

Date: 07/12/1995 10:38:43

WHC-SD-WM-DP-154, REV. 0

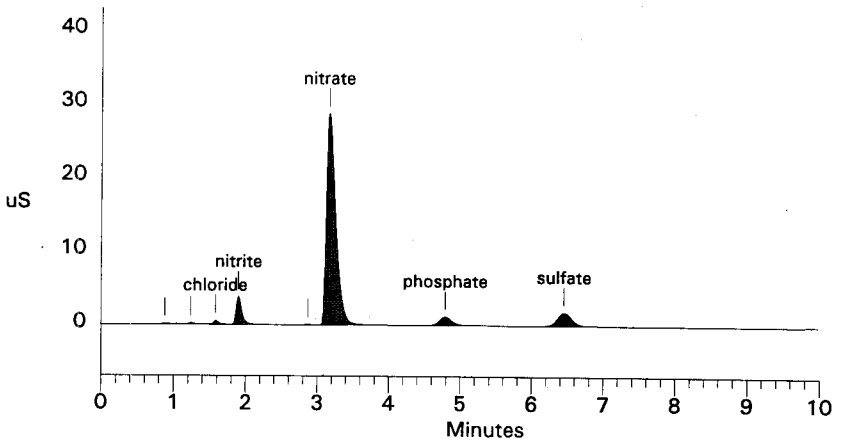
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	110	535	1	
2	1.24		0.000	212	893	1	
3	1.58	chloride	1154.805	511	2482	1	3.27
4	1.90	nitrite	14546.991	3797	21098	1	2.70
6	3.16	nitrate	182627.747	28661	260068	1	-1.25
7	4.79	phosphate	22407.416	1170	14018	1	-0.21
8	6.45	sulfate	15483.077	1826	25281	1	-1.23
		Totals	236220.036	36286	324374		

File: 95071231.D15 Sample: S95T000982 DUP



DATA NOT USED IN PACKAGE

Sample Name: S95T000983
Data File : C:\DX\DATA\95071231.D16
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 16
Analyst : Column:

Date: 07/12/1995 10:52:37

WHC-SD-WM-DP-154, REV. 0

Detector:CDM-1

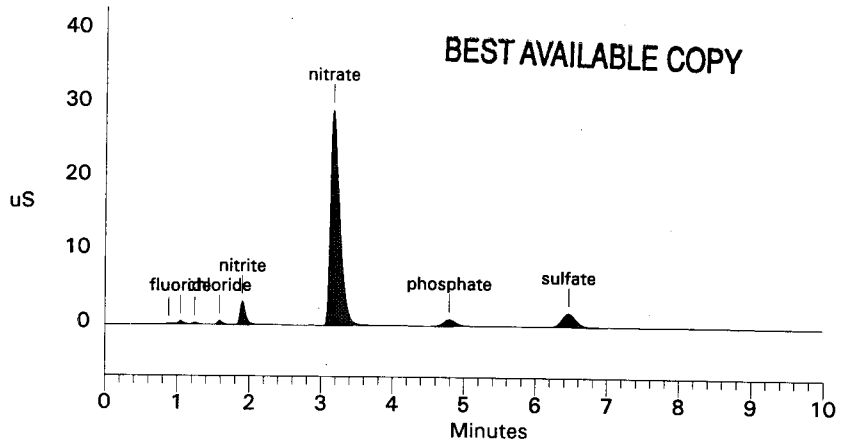
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	102	479	2	
2	1.04	fluoride	764.344	428	2152	2	2.97
3	1.24		0.000	227	1007	2	
4	1.58	chloride	1130.929	507	2430	1	3.27
5	1.90	nitrite	12127.797	3178	17278	1	2.70
6	3.16	nitrate	184567.084	29220	263105	1	-1.25
7	4.79	phosphate	17998.231	917	11040	1	-0.21
8	6.46	sulfate	15768.304	1856	25783	1	-1.07
		Totals	232356.689	36434	323275		

File: 95071231.D16 Sample: S95T000983

BEST AVAILABLE COPY



DATA NOT USED IN PACKAGE

Sample Name: S95T000983 DUP
Data File : C:\DX\DATA\95071231.D17
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 17
Analyst : E.D. Cohn Column:

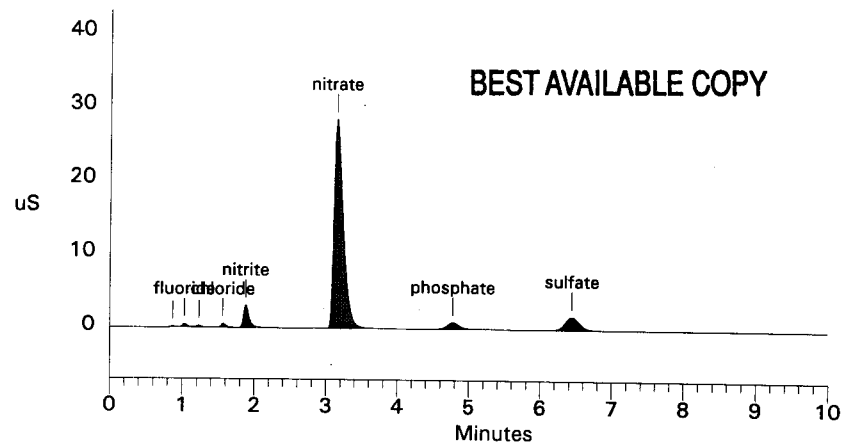
Date: 07/12/1995 11:06:02
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	92	416	2	
2	1.03	fluoride	745.944	436	2093	2	1.98
3	1.23		0.000	220	925	2	
4	1.56	chloride	1130.605	504	2430	1	1.96
5	1.88	nitrite	11875.687	3090	16880	1	1.62
6	3.14	nitrate	180002.217	28342	255966	1	-1.87
7	4.77	phosphate	17404.236	890	10640	1	-0.63
8	6.44	sulfate	15363.631	1797	25071	1	-1.38
		Totals	226522.320	35371	314421		

File: 95071231.D17 Sample: S95T000983 DUP



BEST AVAILABLE COPY

DATA NOT USED IN PACKAGE

LABCORE Data Entry Template for Worklist# 1778

Analyst: EC **Instrument:** IC01 **Book #** 96N9-B

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: BX109 water digest. JMF Please inspect samples for presence of an organic layer. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST#		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				@IC-01	F-02	SOLID	1	2.062	N/A	ug/g
		1	BLNK-PREP				@IC-01	CL-02	SOLID	1	2.083	N/A	ug/g
		1	BLNK-PREP				@IC-01	NO2-02	SOLID	1	2.532	N/A	ug/g
		1	BLNK-PREP				@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
		1	BLNK-PREP				@IC-01	NO3-02	SOLID	1	2.703	N/A	ug/g
		1	BLNK-PREP				@IC-01	PO4-02	SOLID	1	2.572	N/A	ug/g
		1	BLNK-PREP				@IC-01	SO4-02	SOLID	1	2.697	N/A	ug/g
		1	BLNK-PREP				@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01	F-02	SOLID	59	57.9	N/A	ug/g
		2	STD				@IC-01	CL-02	SOLID	79	80.4	N/A	ug/g
		2	STD				@IC-01	NO2-02	SOLID	547	542.9	N/A	ug/g
		2	STD				@IC-01	BR-02	SOLID	N/A	N/A	N/A	ug/g
		2	STD				@IC-01	NO3-02	SOLID	614	607.4	N/A	ug/g
		2	STD				@IC-01	PO4-02	SOLID	546	510.9	N/A	ug/g
		2	STD				@IC-01	SO4-02	SOLID	631	614.1	N/A	ug/g
		2	STD				@IC-01	OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000984	0	W	@IC-01	F-02	SOLID	N/A	1.98604	3.11804	ug/g
95000057	BX-109	3	SAMPLE	S95T000984	0	W	@IC-01	CL-02	SOLID	N/A	1.49865	4.16624	ug/g

Data Entry Comments:

LMCS 96N9-B .100mL - 10mL

SPIKE 96N9-B .100mL

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1778

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 NO2-02	SOLID	N/A	1.56E06	2.67E05	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 NO3-02	SOLID	N/A	2.28E07	3.52E05	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 PO4-02	SOLID	N/A	2.30E06	2.87E05	ug/g
95000057	BX-109	3 SAMPLE	S95T000984	0	W	@IC-01 SO4-02	SOLID	N/A	1.92E06	3.49E05	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 F-02	SOLID	1.89E04	1.85E04	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 CL-02	SOLID	1.49E05	1.37E05	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 NO2-02	SOLID	1.56E06	1.49E06	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 NO3-02	SOLID	2.24E07	2.22E07	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 PO4-02	SOLID	2.30E06	2.22E06	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 SO4-02	SOLID	1.92E06	1.85E06	N/A	ug/g
95000057	BX-109	4 DUP	S95T000984	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 CL-02	SOLID	100	89.6 ~~94.2~~ BJ 96.2 7-11-95	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 F-02	SOLID	100	~~89.6~~	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 NO2-02	SOLID	100	85.7	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 NO3-02	SOLID	100	-40.3	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 PO4-02	SOLID	100	75.7	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 SO4-02	SOLID	100	54.5	N/A	ug/g
95000057	BX-109	5 SPK	S95T000984	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	6 SAMPLE	S95T000994	0	W	@IC-01 F-02	SOLID	N/A	< 31831.16	3.18E04	ug/g

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1778

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	6 SAMPLE	S95T000994	0	W	@IC-01 CL-02	SOLID	N/A	1.53E05	4.26E04	ug/g
95000059	BX-109	6 SAMPLE	S95T000994	0	W	@IC-01 NO2-02	SOLID	N/A	2.14E06	2.73E05	ug/g
95000059	BX-109	6 SAMPLE	S95T000994	0	W	@IC-01 NO3-02	SOLID	N/A	2.07E07	3.61E05	ug/g
95000059	BX-109	6 SAMPLE	S95T000994	0	W	@IC-01 PO4-02	SOLID	N/A	2.94E06	2.94E05	ug/g
95000059	BX-109	6 SAMPLE	S95T000994	0	W	@IC-01 SO4-02	SOLID	N/A	1.91E06	3.58E05	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 F-02	SOLID	<31831.16	<30572.66	N/A	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 CL-02	SOLID	1.53E05	1.07E05	N/A	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 NO2-02	SOLID	2.14E06	1.58E06	N/A	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 NO3-02	SOLID	2.07E07	1.55E07	N/A	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 PO4-02	SOLID	2.94E06	2.19E06	N/A	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 SO4-02	SOLID	1.91E06	1.37E06	N/A	ug/g
95000059	BX-109	7 DUP	S95T000994	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	8 SAMPLE	S95T000995	0	W	@IC-01 F-02	SOLID	N/A	<31294.66	3.13E04	ug/g
95000059	BX-109	8 SAMPLE	S95T000995	0	W	@IC-01 CL-02	SOLID	N/A	1.36E05	4.19E04	ug/g
95000059	BX-109	8 SAMPLE	S95T000995	0	W	@IC-01 NO2-02	SOLID	N/A	2.07E06	2.69E05	ug/g
95000059	BX-109	8 SAMPLE	S95T000995	0	W	@IC-01 NO3-02	SOLID	N/A	2.05E07	3.55E05	ug/g
95000059	BX-109	8 SAMPLE	S95T000995	0	W	@IC-01 PO4-02	SOLID	N/A	2.60E06	2.89E05	ug/g
95000059	BX-109	8 SAMPLE	S95T000995	0	W	@IC-01 SO4-02	SOLID	N/A	1.90E06	3.52E05	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 F-02	SOLID	<31294.66	<31369.43	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 CL-02	SOLID	1.36E05	1.09E05	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 NO2-02	SOLID	2.07E06	1.65E06	N/A	ug/g

Data Entry Comments:

DATA NOT USED IN PACKAGE

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1778

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 BR-02	SOLID	N/A	N/A	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 NO3-02	SOLID	2.05E07	1.56E07	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 PO4-02	SOLID	2.66E06	1.99E06	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 SO4-02	SOLID	1.90E06	1.39E06	N/A	ug/g
95000059	BX-109	9 DUP	S95T000995	0	W	@IC-01 OXALATE2	SOLID	N/A	N/A	N/A	ug/g

Final page for worklist # 1778

E.N. Cohn 7-13-95
Analyst Signature Date

Analyst Signature Date

Entered by Rich Jones and Jean Luge 7/19/95

DATA NOT USED IN PACKAGE

Data Entry Comments: This batch was put out for review and WKL 1862.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T000984 & S95T000994 & S95T000995		
TEST CODE:	@IC01	ANALYST:	E. COLVIN
INSTRUMENT:	IC01	ANALYSIS DATE:	07/13/95
WORK LIST #:	1778	SAMPLE POINT:	BX-109
BATCH ID:	N/A	SAMPLE PREP:	WATER DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
96N9B	98.1%	101.7%	99.3%	98.9%	93.6%	97.3%		
S95T000984	1.89E+04	1.49E+05	1.56E+06	2.28E+07	2.30E+06	1.92E+06	<0.00	<0.00
S95T000984DUP	1.85E+04	1.37E+05	1.48E+06	2.22E+07	2.22E+06	1.85E+06	<0.00	<0.00
Duplicate 1 RPD	2.1%	8.4%	5.5%	2.7%	3.5%	3.6%	N/A	N/A
S95T000994	<31831.16	1.53E+05	2.14E+06	2.07E+07	2.94E+06	1.81E+06	<0.00	<0.00
S95T00994DUP	<30572.66	1.07E+05	1.58E+06	1.55E+07	2.19E+06	1.37E+06	<0.00	<0.00
Duplicate 2 RPD	N/A	34.8%	30.1%	29.0%	29.3%	27.4%	ERR	ERR
S95T000995	<31294.66	1.36E+05	2.07E+06	2.05E+07	2.60E+06	1.80E+06		
S95T000995DUP	<31368.43	1.09E+05	1.65E+06	1.56E+07	1.99E+06	1.39E+06		
Duplicate 3 RPD	N/A	21.9%	23.0%	26.9%	26.3%	25.5%		
S95T000984SPK	96.2%	89.6%	85.7%	-40.3%	75.7%	84.5%		

NARRATIVE: Analyst Comments:

Chemist Comments:

These are being reran.
Values are

DATA NOT USED IN PACKAGE

Form Completed By: [signature] Date: 7-19-95

Chemist Approval: [signature] Date: 7/19/95

436

LAB LEADER INFO	
Method:	LA-533-106
Matrix:	SOLID
Test Code:	@IC01
Work List #:	1779
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	96N9B
Spike Sample #:	1
Prepared By:	R. JONES
Prepared Date:	07/19/95
Chemist:	J. FRYE
Analyst:	E. COLVIN
Analysis Date:	07/13/95
Time Complete:	10:20 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	WATER DIGEST
Sample Point:	BX-109
Sample Type	
STANDARD	96N9B
SAMPLE 1	S95T000984
DUPLICATE 1	S95T000984DUP
SAMPLE 2	S95T000994
DUPLICATE 2	S95T000994DUP
SAMPLE 3	S95T000995
DUPLICATE 3	S95T000995DUP
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T000984SPK
SPIKE DUPLICATE	

PRINT

TECH INFO	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.532	<.703	<.572	<.697		
Standard Data (µg/mL)	57.957	80.373	542.904	607.385	510.875	614.124		
Sample 1 Data (µg/mL)	1.94E+02	1.63E+03	1.60E+04	2.35E+05	2.36E+04	1.98E+04		
Sample 1 Dilution Factor	5151	5151	5151	5151	5151	5151		
Sample 1 Prep DF	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28
Duplicate 1 Data (µg/mL)	1.93E+02	1.43E+03	1.54E+04	2.32E+05	2.32E+04	1.94E+04		
Duplicate 1 Dilution Factor	5151	5151	5151	5151	5151	5151		
Duplicate 1 Prep DF	10.438	10.438	10.438	10.438	10.438	10.438	10.438	10.438
Sample 2 Data (µg/mL)	<.062	1.63E+03	2.15E+04	2.09E+05	2.95E+04	1.91E+04		
Sample 2 Dilution Factor	5151	5151	5151	5151	5151	5151		
Sample 2 Prep DF	10.033	10.033	10.033	10.033	10.033	10.033	10.033	10.033
Duplicate 2 Data (µg/mL)	<.062	1.12E+03	1.66E+04	1.62E+05	2.29E+04	1.43E+04		
Duplicate 2 Dilution Factor	5151	5151	5151	5151	5151	5151		
Duplicate 2 Prep DF	10.446	10.446	10.446	10.446	10.446	10.446	10.446	10.446
Sample 3 Data (µg/mL)	<.062	1.39E+03	2.12E+04	2.09E+05	2.85E+04	1.84E+04		
Sample 3 Dilution Factor	5151	5151	5151	5151	5151	5151		
Sample 3 Prep DF	10.205	10.205	10.205	10.205	10.205	10.205	10.205	10.205
Duplicate 3 Data (µg/mL)	<.062	1.11E+03	1.68E+04	1.59E+05	2.03E+04	1.42E+04		
Duplicate 3 Dilution Factor	5151	5151	5151	5151	5151	5151		
Duplicate 3 Prep DF	10.181	10.181	10.181	10.181	10.181	10.181	10.181	10.181
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	3.06E+03	5.11E+03	3.97E+04	2.22E+05	4.46E+04	4.67E+04		
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01		
Total Volume (mL)	10.20	10.20	10.20	10.20	10.20	10.20		
Std. Conc. (µg/mL)	59	79	547	614	546	631		
Detection Limit	0.062	0.083	0.532	0.703	0.572	0.697		
Matrix Detection Limit 1	3.11E+04	4.16E+04	2.67E+05	3.52E+05	2.97E+05	3.49E+05	0.00E+00	0.00E+00
Matrix Detection Limit 2	3.19E+04	4.26E+04	2.73E+05	3.61E+05	2.94E+05	3.58E+05	0.00E+00	0.00E+00
Matrix Detection Limit 3	3.13E+04	4.19E+04	2.69E+05	3.55E+05	2.89E+05	3.52E+05	0.00E+00	0.00E+00
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

DATA NOT USED IN PACKAGE

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	98.1%	101.7%	99.3%	98.9%	93.8%	97.3%		
Sample 1 in µg/g	1.89E+04	1.49E+05	1.55E+06	2.28E+07	2.30E+06	1.92E+06	<0.00	<0.00
Duplicate 1 in µg/g	1.85E+04	1.37E+05	1.48E+06	2.22E+07	2.22E+06	1.85E+06	<0.00	<0.00
Duplicate 1 RPD	2.1%	8.4%	5.6%	2.7%		3.6%	N/A	N/A
Sample 2 in µg/g	<31831.16	1.53E+05	2.14E+06	2.07E+07	2.94E+06	1.81E+06	<0.00	<0.00
Duplicate 2 in µg/g	<30572.66	1.07E+05	1.58E+06	1.55E+07	2.19E+06	1.37E+06	<0.00	<0.00
Duplicate 2 RPD	N/A	34.8%	30.1%	29.0%	29.3%	27.4%	ERR	ERR
Sample 3 in µg/g	<31294.66	1.36E+05	2.07E+06	2.06E+07	2.80E+06	1.80E+06		
Duplicate 3 in µg/g	<31368.43	1.09E+05	1.65E+06	1.56E+07	1.99E+06	1.39E+06		
Duplicate 3 RPD	N/A	21.9%	23.0%	28.9%	28.3%	26.5%		
Spike % Recovery	96.2%	89.6%	85.7%	40.3%	76.7%	84.6%		

Data Entry by: R. Jones Date: 07/19/95

Approved by: J. Frye Date: 7/19/95

Form DIONEX.WB1 Rev. 1.3

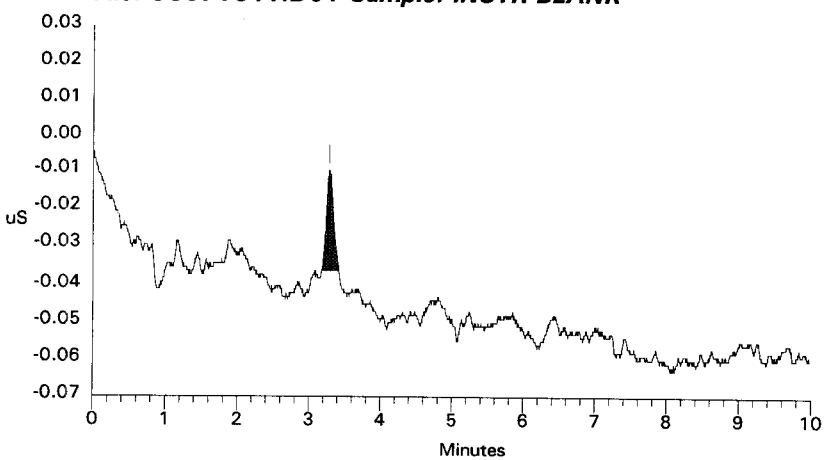
Sample Name: INSTR BLANK	Date: 07/13/1995 07:04:31
Data File : C:\DX\DATA\95071341.D01	WHC-SD-WM-DP-154, REV. 0
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 1	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95071341.D01 Sample: INSTR BLANK



DATA NOT USED IN PACKAGE

Sample Name: PREP BLANK
Data File : C:\DX\DATA\95071341.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst : Column:

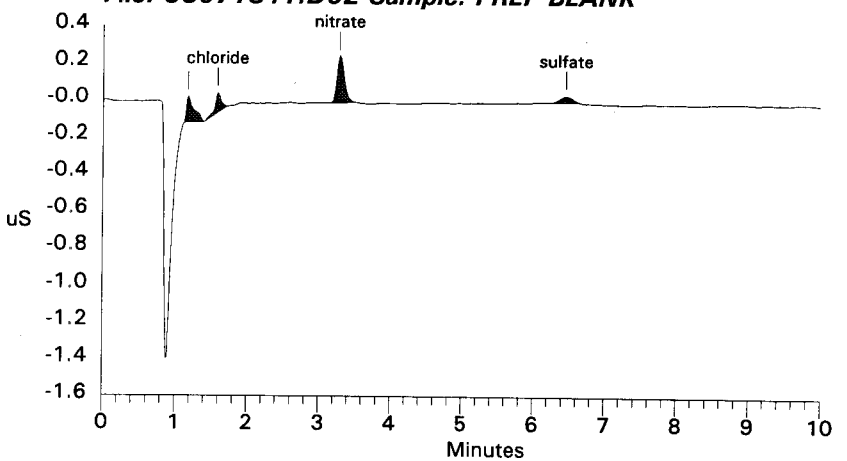
Date: 07/13/1995 07:15:21
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.17		0.000	136	996	1	
2	1.58	chloride	0.058	106	633	1	3.27
3	3.28	nitrate	0.556	248	1793	1	2.50
4	6.45	sulfate	0.242	34	408	1	-1.23
		Totals	0.856	524	3830		

File: 95071341.D02 Sample: PREP BLANK



DATA
NOT USED
IN PACKAGE

Sample Name: 96N9-B STD
Data File : C:\DX\DATA\95071341.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : PM Eck Column:

Date: 07/13/1995 07:41:53
WHC-SD-WM-DP-154, REV. 0
Detector: CDM-1

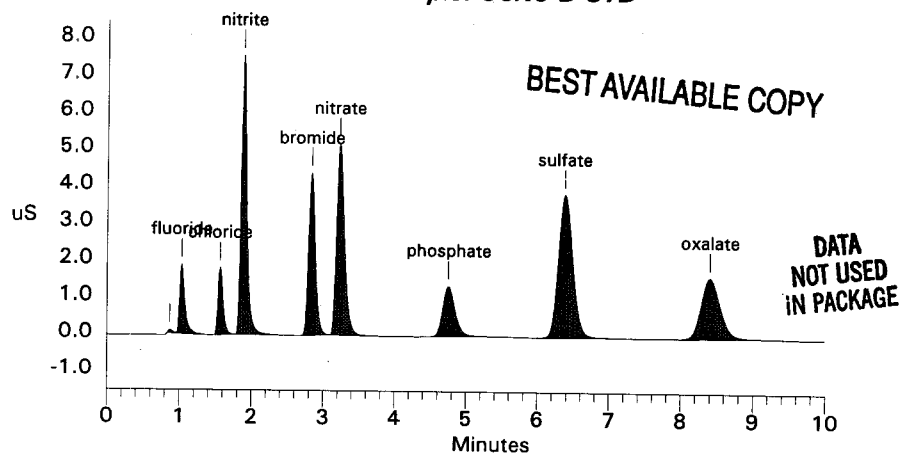
7/13/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	81	345	2	
2	1.03	fluoride	57.857	1863	9257	2	1.98
3	1.56	chloride	80.373	1808	8870	1	1.96
4	1.88	nitrite	542.904	7554	41861	1	1.62
5	2.83	bromide	543.689	4376	28347	1	1.07
6	3.22	nitrate	607.385	5170	39553	1	0.63
7	4.75	phosphate	510.875	1358	16491	1	-1.04
8	6.37	sulfate	614.124	3843	53357	1	-2.45
9	8.40	oxalate	494.323	1634	29820	1	-2.33
		Totals	3451.531	27687	227902		

File: 95071341.D04 Sample: 96N9-B STD



BEST AVAILABLE COPY

DATA NOT USED IN PACKAGE

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 440 TO 447.

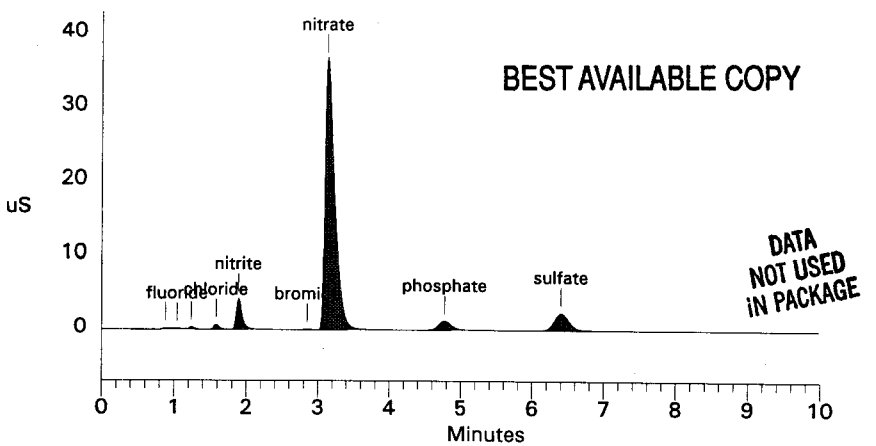
Sample Name: S95T000984 Date: 07/13/1995 07:56:28
Data File : C:\DX\DATA\95071341.D05
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-154, REV. 0
ACI Address: 1 System: 1 Inject#: 5 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	124	615	2	
2	1.04	fluoride	193.910	76	311	2	2.97
3	1.24		0.000	291	1352	1	
4	1.58	chloride	1533.601	647	3300	1	3.27
5	1.89	nitrite	16038.036	4148	23452	1	2.16
6	2.85	bromide	1839.825	51	297	1	1.79
7	3.13	nitrate	234648.925	36485	343863	1	-2.19
8	4.77	phosphate	23640.027	1217	14852	1	-0.63
9	6.40	sulfate	19765.709	2370	32830	1	-1.99
		Totals	297660.032	45408	420872		

File: 95071341.D05 Sample: S95T000984



Sample Name: S95T000984 DUP
Data File : C:\DX\DATA\95071341.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst : Column:

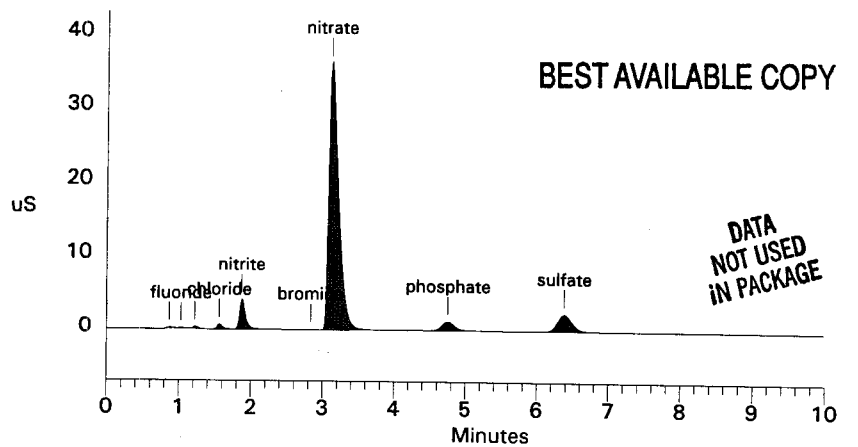
Date: 07/13/1995 08:10:45
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	123	598	2	
2	1.03	fluoride	192.742	77	307	2	1.98
3	1.22		0.000	279	1271	1	
4	1.56	chloride	1432.252	633	3081	1	1.96
5	1.87	nitrite	15406.460	4013	22455	1	1.08
6	2.83	bromide	1857.536	54	316	1	1.07
7	3.11	nitrate	232003.558	36060	339478	1	-2.81
8	4.75	phosphate	23169.857	1199	14534	1	-1.04
9	6.38	sulfate	19357.624	2328	32109	1	-2.30
		Totals	293420.030	44767	414148		

File: 95071341.D06 Sample: S95T000984 DUP



Sample Name: S95T000984 + SPIKE
Data File : C:\DX\DATA\95071341.D07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : Column:

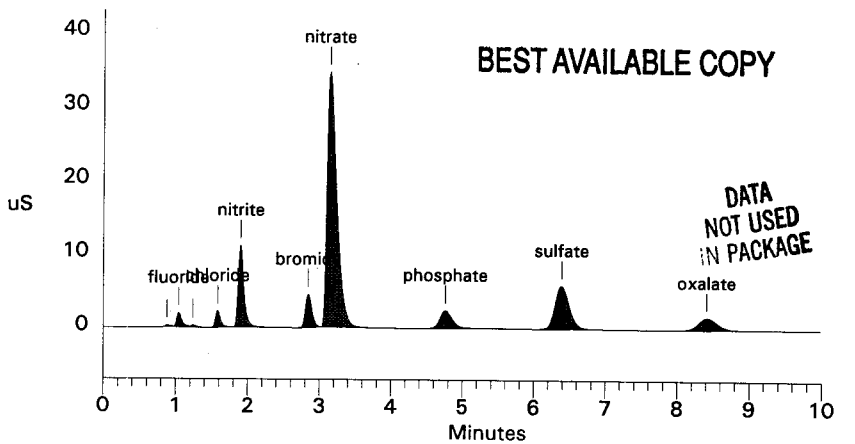
Date: 07/13/1995 08:26:37
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	170	820	2	
2	1.04	fluoride	3059.741	1909	9613	3	2.97
3	1.24		0.000	268	1323	4	
4	1.58	chloride	5106.291	2261	11073	1	3.27
5	1.90	nitrite	39710.745	11167	60879	1	2.70
6	2.84	bromide	27604.433	4512	28211	1	1.43
7	3.14	nitrate	222153.265	34520	323274	1	-1.87
8	4.76	phosphate	44524.677	2424	29175	1	-0.83
9	6.39	sulfate	46703.425	5880	81057	1	-2.14
10	8.41	oxalate	25048.497	1625	29619	1	-2.21
		Totals	413911.075	64737	575044		

File: 95071341.D07 Sample: S95T000984 + SPIKE



Sample Name: S95T000994
Data File : C:\DX\DATA\95071341.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst : Column:

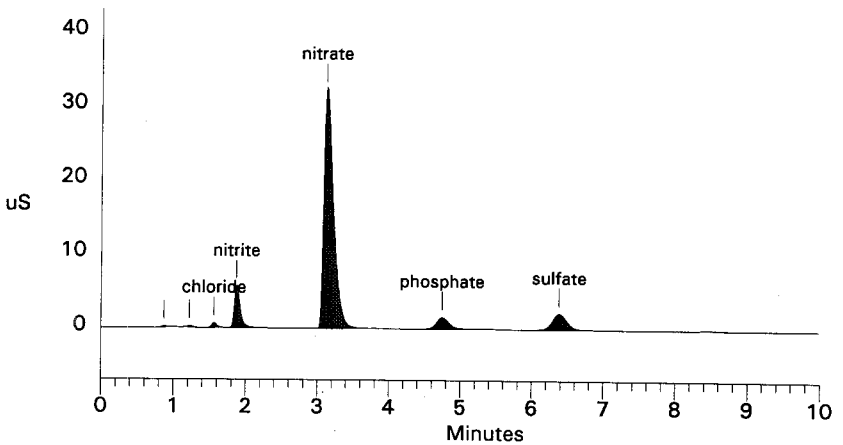
Date: 07/13/1995 08:38:42
WHC-SD-WM-DP-154, REV. 0
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	128	612	1	
2	1.22		0.000	239	1109	1	
3	1.56	chloride	1531.842	657	3296	1	1.96
4	1.87	nitrite	21464.673	5624	32024	1	1.08
5	3.12	nitrate	208149.690	32285	300557	1	-2.50
6	4.74	phosphate	29540.853	1553	18865	1	-1.25
7	6.38	sulfate	18147.193	2148	29973	1	-2.30
		Totals	278834.250	42635	386437		

File: 95071341.D08 Sample: S95T000994



DATA
NOT USED
IN PACKAGE

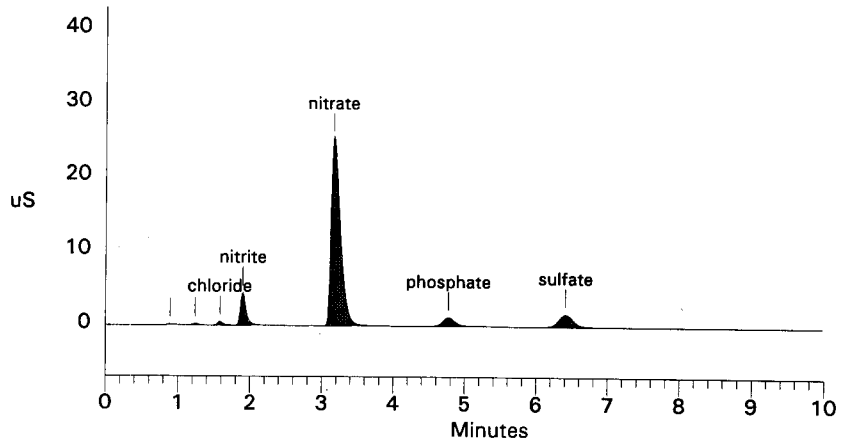
Sample Name: S95T000994 DUP Date: 07/13/1995 08:51:59
Data File : C:\DX\DATA\95071341.D09
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-154, REV. 0
ACI Address: 1 System: 1 Inject#: 9 Detector:CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	93	446	1	
2	1.24		0.000	191	878	1	
3	1.58	chloride	1121.981	496	2411	1	3.27
4	1.90	nitrite	16503.810	4401	24188	1	2.70
5	3.16	nitrate	161867.592	25266	227946	1	-1.25
6	4.77	phosphate	22893.633	1187	14347	1	-0.63
7	6.41	sulfate	14338.021	1677	23268	1	-1.84
		Totals	216725.036	33311	293484		

File: 95071341.D09 Sample: S95T000994 DUP



DATA NOT USED IN PACKAGE

Sample Name: S95T000995
Data File : C:\DX\DATA\95071341.D10
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10
Analyst : Column:

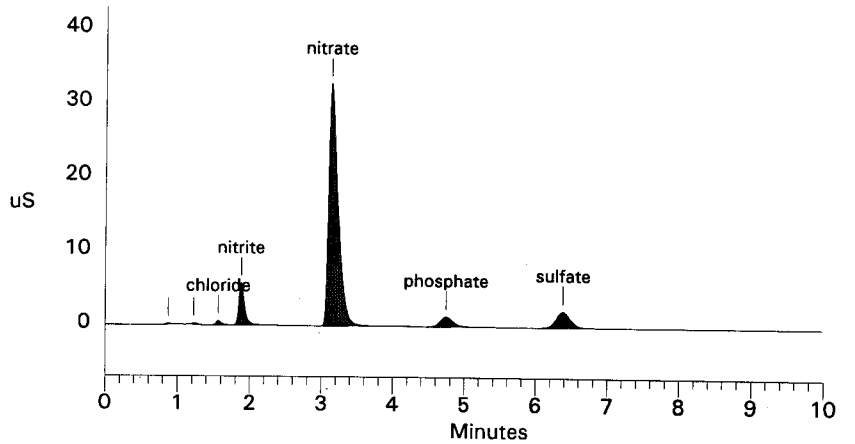
Date: 07/13/1995 10:02:25
WHC-SD-WM-DP-154, REV. 0
Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	123	589	1	
2	1.22		0.000	232	1080	1	
3	1.56	chloride	1386.264	605	2981	1	1.96
4	1.88	nitrite	21168.163	5781	31556	1	1.62
5	3.13	nitrate	209050.806	32762	302008	1	-2.19
6	4.74	phosphate	26488.432	1380	16786	1	-1.25
7	6.38	sulfate	18364.054	2192	30356	1	-2.30
		Totals	276457.718	43075	385356		

File: 95071341.D10 Sample: S95T000995



DATA NOT USED IN PACKAGE

Sample Name: S95T000995 DUP
Data File : C:\DX\DATA\95071341.D11
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11
Analyst : Column:

Date: 07/13/1995 10:19:58

WHC-SD-WM-DP-154, REV. 0

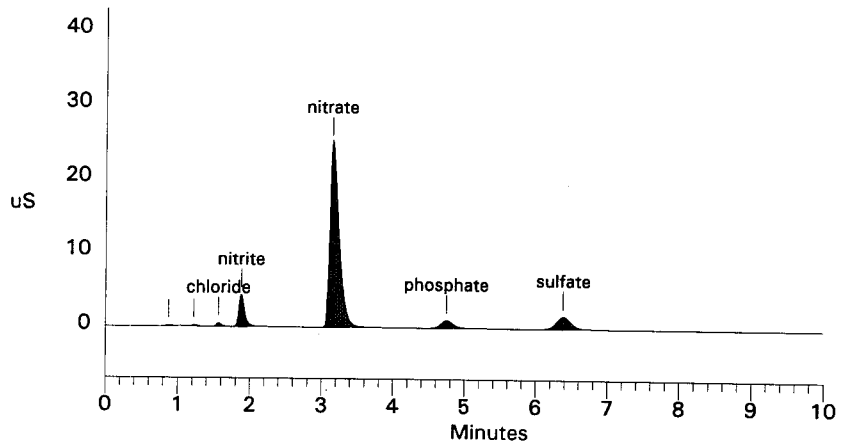
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	5151	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	86	391	1	
2	1.22		0.000	179	832	1	
3	1.56	chloride	1109.786	475	2385	1	1.96
4	1.88	nitrite	16753.785	4304	24583	1	1.62
5	3.14	nitrate	159065.478	24931	223664	1	-1.87
6	4.74	phosphate	20288.635	1025	12585	1	-1.25
7	6.38	sulfate	14178.656	1655	22988	1	-2.30
		Totals	211396.341	32655	287427		

File: 95071341.D11 Sample: S95T000995 DUP



DATA NOT USED IN PACKAGE

LABCORE Data Entry Template for Worklist# 2109

Analyst: JK 5a10 Instrument: ICP01 8-29-95 Book# 46848

Method: LA-505-151/61 8-29-95 Rev/Mod B-0

Worklist Comment: BX-109 WATER DIGEST WITH ACID ADDED

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-I01	SOLID		
6	SAMPLE	S95T001445	0	I	@ICP-I01	SOLID	95000057	BX-109

Analytes Requested: AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01

7	DUP	S95T001445	0	I	@ICP-I01	SOLID		
8	SPK	S95T001445	0	I	@ICP-I01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
	PREPBLKTJA JK 8-29-95							
11	SAMPLE	S95T001470	0	I	@ICP-I01	SOLID	95000059	BX-109

Analytes Requested: AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01

12	DUP	S95T001470	0	I	@ICP-I01	SOLID		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2109

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T001470	0	I	@ICP-I01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 2109

JK 08-29-95
Analyst Signature Date

Reviewed + Validated by:
Samuel M. Pourey 08/31/95
Analyst Signature Date

S95T001445_L, .9747g → 100 ml, 2-8-2-8 ml, (100 x 25)/.9747 = 2564.9
S95T001445 .9747g → 100 2-8 (100 x 5)/.9747 = 513
S95T001445_D .9609g → 100 2-8 (100 x 5)/.9609 = 520.4
S95T001445_Q .9747g → 100 2-8 (100 x 5)/.9747 = 513 2ml samp/c + 2ml SSTS + 6 ml HNO_3

S95T001470_L, 1.1887g → 100 ml, 2-8-2-8 ml, (100 x 25)/1.1887 = 2103.1
S95T001470 1.1887g → 100 2-8 (100 x 5)/1.1887 = 420.6
S95T001470_D 1.1554g → 100 2-8 (100 x 5)/1.1554 = 432.7
S95T001470_Q 1.1887g → 100 2-8 (100 x 5)/1.1887 = 420.6 2ml samp/c + 2ml SSTS + 6ml HNO_3

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950829B	ICP2	08/29/95	13:02	DKS	Q	CONC
2	ICB	950829B	ICP2	08/29/95	13:06	DKS	Q	CONC
3	ICSA	950829B	ICP2	08/29/95	13:09	DKS	Q	CONC
4	ICSAB	950829B	ICP2	08/29/95	13:12	DKS	Q	CONC
5	PREPBLKTJA	950829B	ICP2	08/29/95	13:20	DKS	S	CONC
6	S95T001445_L	950829B	ICP2	08/29/95	13:24	DKS	S	CONC
7	S95T001445	950829B	ICP2	08/29/95	13:28	DKS	S	CONC
8	S95T001445_D	950829B	ICP2	08/29/95	13:34	DKS	S	CONC
9	S95T001445_A	950829B	ICP2	08/29/95	13:39	DKS	S	CONC
10	CCV	950829B	ICP2	08/29/95	13:46	DKS	Q	CONC
11	CCB	950829B	ICP2	08/29/95	13:49	DKS	Q	CONC
12	PREPBLKTJA	950829B	ICP2	08/29/95	13:53	DKS	S	CONC
13	S95T001470_L	950829B	ICP2	08/29/95	13:57	DKS	S	CONC
14	S95T001470	950829B	ICP2	08/29/95	14:01	DKS	S	CONC
15	S95T001470_D	950829B	ICP2	08/29/95	14:05	DKS	S	CONC
16	S95T001470_A	950829B	ICP2	08/29/95	14:10	DKS	S	CONC
17	ICSA	950829B	ICP2	08/29/95	14:16	DKS	Q	CONC
18	ICSAB	950829B	ICP2	08/29/95	14:20	DKS	Q	CONC
19	CCV_1	950829B	ICP2	08/29/95	14:27	DKS	Q	CONC
20	CCB_1	950829B	ICP2	08/29/95	14:31	DKS	Q	CONC

JK 9/10

08-29-95

B Y-109 S95T001445

~~S95T001445~~ ~~8-29-95~~ 8-29-95

S95T001470

Worklist # 2109

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 449 TO 453

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.924	5.061	5.207	5.141	5.087	5.240
2	ICB	.0012	.0023	.0015	.0070	.0001	.0000
3	ICSA	.0000	246.8	-.0319	.0014	.0018	.0000
4	ICSAB	.9414	245.7	-.0219	-.0044	.4659	.4756
5	PREPBLKTJA	.0003	.0081	.0038	.0038	.0000	.0000
6	S95T001445_L	1.232	292.7	50.66	26.01	4.607	-.0208
7	S95T001445	.2111	293.2	8.955	29.38	4.569	.0123
8	S95T001445_D	-.1589	309.8	1.109	30.29	5.948	.0435
9	S95T001445_A	456.8	804.1	549.3	551.1	508.6	536.8
10	CCV	4.978	5.101	5.288	5.207	5.148	5.369
11	CCB	.0003	.0015	.0171	.0080	.0001	.0000
12	PREPBLKTJA	.0001	-.0010	.0219	.0042	.0001	-.0001
13	S95T001470_L	1.558	227.1	11.68	25.99	8.431	-.1761
14	S95T001470	.0887	221.4	4.476	29.69	8.212	-.0551
15	S95T001470_D	.2188	209.4	-1.163	29.67	8.042	-.0241
16	S95T001470_A	359.0	637.0	435.4	450.7	421.2	436.3
17	ICSA	.0004	252.9	.0102	-.0046	.0018	.0001
18	ICSAB	.9532	247.8	-.0420	.0006	.4700	.4888
19	CCV_1	4.967	5.054	5.289	5.159	5.096	5.324
20	CCB_1	-.0005	.0060	.0073	.0038	.0000	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.085	5.158	5.185	5.150	5.158	5.201
2	ICB	.0168	.0010	.0017	-.0017	.0005	.0001
3	ICSA	.0045	246.4	.0025	.0074	.0015	.0070
4	ICSAB	-.0204	246.8	.9506	.0088	.4702	.4821
5	PREPBLKTJA	-.0190	.0087	.0013	.0003	-.0002	-.0013
6	S95T001445_L	-1.749	191.9	3.448	-10.72	3.761	64.40
7	S95T001445	39.17	67.88	1.024	2.250	1.748	65.07
8	S95T001445_D	53.10	75.09	.9552	.5651	2.025	68.85
9	S95T001445_A	548.5	600.4	537.0	521.9	530.2	603.7
10	CCV	5.116	5.361	5.296	5.221	5.257	5.308
11	CCB	-.0117	.0010	.0004	-.0008	-.0007	.0002
12	PREPBLKTJA	-.0094	.0038	.0018	-.0008	-.0017	.0001
13	S95T001470_L	62.68	191.2	1.715	11.40	2.577	82.90
14	S95T001470	69.99	90.30	.0696	1.938	1.530	83.47
15	S95T001470_D	79.29	77.06	.3048	2.857	.9440	82.19
16	S95T001470_A	497.8	512.8	438.5	428.8	433.8	520.3
17	ICSA	-.0390	262.6	.0017	.0147	.0024	.0062
18	ICSAB	-.0026	256.1	.9769	.0149	.4807	.4924
19	CCV_1	5.070	5.418	5.288	5.172	5.245	5.304
20	CCB_1	-.0113	.0293	.0008	-.0083	.0010	-.0003

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.213	.0052	5.193	5.081	5.145	5.075
2	ICB	-.0000	.0008	.0010	-.0370	.0001	.0004
3	ICSA	-.0103	-.0179	93.37	-.1473	-.0040	.0025
4	ICSAB	.4739	-.0186	92.83	-.0565	-.0046	.9752
5	PREPBLKTJA	.0004	.0006	.0003	-.2435	.0002	.0009

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	Cu	Eu	Fe	K	La	Li
6	S95T001445_L	1.243	1.334	1864.	-383.4	-1.671	9.795
7	S95T001445_	1.261	.1787	1861.	-2.720	.9049	9.644
8	S95T001445_D	1.739	.0672	2481.	-61.09	.6734	9.987
9	S95T001445_A	526.8	.8971	2423.	529.2	520.3	512.2
10	CCV	5.255	.0055	5.303	4.988	5.224	5.088
11	CCB	.0002	.0013	.0000	-.1811	-.0004	.0011
12	PREPBLKTJA	.0014	.0010	.0025	-.1655	-.0003	.0010
13	S95T001470_L	4.444	2.054	3376.	-354.8	2.113	27.59
14	S95T001470_	2.092	.2085	3289.	80.07	1.140	26.77
15	S95T001470_D	2.448	.3366	3238.	48.42	1.470	26.35
16	S95T001470_A	431.6	.4870	3660.	438.2	426.3	439.2
17	ICSA	-.0096	-.0401	97.73	-.1316	-.0042	.0042
18	ICSAB	.4780	-.0328	95.14	-.0172	-.0029	.9743
19	CCV_1	5.193	.0064	5.276	4.861	5.167	5.016
20	CCB_1	.0006	.0015	.0000	-.3046	-.0008	.0008

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.022	5.084	5.202	5.046	5.281	5.147
2	ICB	-.0007	.0004	-.0025	.0050	-.0004	-.0037
3	ICSA	248.8	-.0059	-.0078	191.5	.0020	-.0251
4	ICSAB	247.7	.4508	-.0075	191.1	.0020	.9079
5	PREPBLKTJA	.0131	.0001	-.0018	.4979	-.0013	-.0031
6	S95T001445_L	40.55	10.68	2.413	103400.	-.2321	-2.838
7	S95T001445_	36.15	9.697	3.673	102300.	1.370	3.880
8	S95T001445_D	47.21	12.82	4.658	103400.	2.058	6.724
9	S95T001445_A	549.0	520.4	538.4	102800.	533.9	539.2
10	CCV	5.059	5.164	5.273	5.066	5.351	5.269
11	CCB	-.0021	.0007	-.0028	.0089	-.0005	-.0140
12	PREPBLKTJA	.0046	.0004	-.0018	.2922	-.0020	-.0053
13	S95T001470_L	79.46	18.62	5.905	99920.	4.499	1.278
14	S95T001470_	57.95	17.06	7.411	98440.	2.890	15.96
15	S95T001470_D	58.95	16.81	7.679	95950.	3.512	14.68
16	S95T001470_A	475.5	433.9	446.4	97930.	439.4	446.4
17	ICSA	256.0	-.0057	-.0112	193.9	.0001	-.0226
18	ICSAB	250.7	.4615	-.0109	191.1	.0015	.9304
19	CCV_1	5.020	5.157	5.274	5.016	5.285	5.242
20	CCB_1	.0036	.0009	-.0001	.0060	-.0003	-.0059

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.139	5.150	5.066	4.860	5.077	4.920
2	ICB	-.0124	.0014	-.0002	-.0031	.0061	.0100
3	ICSA	.1671	.0379	-.0201	-.0077	.5468	.0142
4	ICSAB	.1010	.9903	-.0207	-.0014	.5539	.0132
5	PREPBLKTJA	-.0086	.0060	-.0088	-.0005	.0103	.0853
6	S95T001445_L	8389.	60.61	6679.	-11.04	-61.16	114.7
7	S95T001445_	8473.	44.95	6761.	-.2997	-86.90	78.49
8	S95T001445_D	8751.	55.16	6838.	-1.556	-89.19	91.20
9	S95T001445_A	9215.	572.6	7418.	497.5	443.2	592.4
10	CCV	5.141	5.236	5.125	4.926	5.160	4.979
11	CCB	-.0033	.0133	-.0009	-.0067	.0409	.0143

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	P	Pb	S	Sb	Se	Si
12	PREPBLKTJA	.0081	.0096	.0037	-.0072	.0170	.0667
13	S95T001470_L	7370.	84.08	6498.	10.79	-43.31	104.1
14	S95T001470_	7489.	68.59	6592.	2.180	-83.84	91.04
15	S95T001470_D	7467.	68.52	6488.	.8048	-74.37	90.80
16	S95T001470_A	7909.	506.9	6944.	409.9	345.9	506.6
17	ICSA	.1712	.0367	-.0093	-.0063	.6133	.0182
18	ICSAB	.1272	1.012	-.0299	-.0016	.5737	.0156
19	CCV_1	5.185	5.249	5.102	4.907	5.162	4.966
20	CCB_1	.0101	.0153	.0045	-.0025	.0405	.0127

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.154	5.035	-.0118	4.995	5.020	10.23
2	ICB	.0087	.0000	-.0007	.0000	.0081	.0286
3	ICSA	.0007	.0017	-.0071	.0017	.0168	-.0046
4	ICSAB	.0024	.0017	-.0112	.0013	.0299	.0062
5	PREPBLKTJA	.0060	.0003	.0029	.0000	.0031	.0145
6	S95T001445_L	17.56	21.54	-11.86	3.240	23.45	479.9
7	S95T001445_	3.864	21.70	-.2524	2.256	3.814	446.6
8	S95T001445_D	4.978	28.40	-1.847	3.159	.8966	567.6
9	S95T001445_A	521.4	529.8	-3.630	512.5	512.1	1481.
10	CCV	5.223	5.110	-.0144	5.073	5.118	10.36
11	CCB	.0161	.0001	-.0004	.0004	.0011	.0560
12	PREPBLKTJA	.0110	.0005	-.0018	.0002	-.0051	.0424
13	S95T001470_L	23.63	43.95	-5.217	3.988	-1.401	543.9
14	S95T001470_	5.617	43.87	-3.419	3.522	5.338	475.3
15	S95T001470_D	7.469	42.75	-2.104	3.445	2.789	462.4
16	S95T001470_A	426.0	458.8	-1.302	418.3	425.3	1306.
17	ICSA	.0070	.0016	-.0065	.0015	.0633	-.0702
18	ICSAB	.0087	.0016	-.0033	.0015	.0451	-.0385
19	CCV_1	5.164	5.058	-.0168	5.015	5.179	10.23
20	CCB_1	.0158	.0001	-.0051	.0004	-.0229	.0519

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.156	.0132	5.166	5.098
2	ICB	.0020	.0005	-.0006	.0009
3	ICSA	.0009	.0079	-.0011	-.0022
4	ICSAB	.4698	.0080	.9753	-.0008
5	PREPBLKTJA	.0011	.0002	.0003	.0003
6	S95T001445_L	5.200	1.609	47.66	2.650
7	S95T001445_	1.114	.8445	22.55	-.0367
8	S95T001445_D	1.323	.9791	26.32	.4137
9	S95T001445_A	530.2	2.373	558.6	518.3
10	CCV	5.243	.0139	5.243	5.182
11	CCB	.0038	.0009	.0002	.0017
12	PREPBLKTJA	.0031	.0008	.0016	.0010
13	S95T001470_L	6.397	2.473	50.43	1.571
14	S95T001470_	1.609	1.253	33.42	1.522
15	S95T001470_D	2.165	1.357	31.36	1.482
16	S95T001470_A	433.0	2.374	470.5	424.1
17	ICSA	.0027	.0088	.0001	-.0000

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	V	Y	Zn	Zr		
18	ICSAB	.4809	.0086	.9928	-.0011		
19	CCV_1	5.225	.0141	5.241	5.146		
20	CCB_1	.0039	.0009	.0064	.0012		

08-29-95

LABCORE Data Entry Template for Worklist# 1937

Analyst: DK SJ/D Instrument: 8-7-95 ICP01 Book# 46848

Method: LA-505-~~151~~ 8-4-95 141 Rev/Mod Q-1

Worklist Comment: ICP BX-109 FUSION (All metals)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T001329	0	F	@ICP-F01	SOLID	95000057	BX-109

Analytes Requested: AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01

7	DUP	S95T001329	0	F	@ICP-F01	SOLID		
8	SPK	S95T001329	0	F	@ICP-F01	SOLID		
9	ICSA				@ICP-QC	QC		
10	ICSAB				@ICP-QC	QC		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		

Final page for worklist # 1937

DK SJ/D 08-09-95
Analyst Signature Date

Reviewed and Validated
8/10/95
Analyst Signature Date

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1937

S Type	Sample#	R	A	Test	Matrix	Group#	Project
Prep blk TTA	1-4 ml						
	595T00 1349_L, .5535 g → 250 ml,						
	525T00 1329						
	595T00 1349_D						
	595T00 1329_Q						

8-10-95 .2×10-2-8 ml, .2×10, +4, .2×10, +4, .2×10, 2.4

8-10-95 255, (250×50)/.5535 = 23035.2, 51, (250×44)/.5535 = 4516.7, 51, (250×70)/.5535 = 4469.9, 51, (250×70)/.5535 = 4516.7

8-10-95 115174.2, 23035.2, 22490.7, 23035.2, 8, .2ml sig/L + 2ml SSTS + 8ml H2O HA

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950810C	ICP2	08/10/95	11:57	DLS	Q	CONC
2	ICB	950810C	ICP2	08/10/95	12:03	DKS	Q	CONC
3	ICSA	950810C	ICP2	08/10/95	12:06	DKS	Q	CONC
4	ICSAB	950810C	ICP2	08/10/95	12:09	DKS	Q	CONC
5	PREPBLKTJA	950810C	ICP2	08/10/95	12:15	DKS	S	CONC
6	S95T001329_L	950810C	ICP2	08/10/95	12:19	DKS	S	CONC
7	S95T001329	950810C	ICP2	08/10/95	12:23	DKS	S	CONC
8	S95T001329_D	950810C	ICP2	08/10/95	12:28	DKS	S	CONC
9	S95T001329_A	950810C	ICP2	08/10/95	12:33	DKS	S	CONC
10	ICSA	950810C	ICP2	08/10/95	12:45	DKS	Q	CONC
11	ICSAB	950810C	ICP2	08/10/95	12:49	DKS	Q	CONC
12	CCV	950810C	ICP2	08/10/95	13:05	DKS	Q	CONC
13	CCV	950810C	ICP2	08/10/95	13:15	DKS	Q	CONC
14	CCB	950810C	ICP2	08/10/95	13:22	DKS	Q	CONC

WHC-SD-WM-DP-154, REV. 0

JK [illegible]
08-10-95
BX-109 S95T001329
Work List # 1937

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 456 TO 459.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.947	4.924	5.097	4.930	4.863	5.139
2	ICB	-.0006	.0046	-.0044	-.0022	.0000	.0002
3	ICSA	-.0025	240.7	-.1499	-.0010	.0018	.0003
4	ICSAB	.9380	240.6	-.0976	-.0064	.4522	.4698
5	PREPBLKTJA	-.0014	.0115	-.0123	.0018	.0005	.0002
6	S95T001329_L	-275.5	2815.	212.4	10.93	47.89	33.56
7	S95T001329	-15.16	1598.	-381.9	30.87	49.63	3.072
8	S95T001329_D	-34.36	1512.	-287.2	-49.70	48.04	3.650
9	S95T001329_A	10170.	23770.	24170.	22170.	21230.	23500.
10	ICSA	-.0008	244.0	-.0854	-.0065	.0017	.0003
11	ICSAB	.9624	242.5	-.0995	-.0114	.4529	.4878
12	CCV	5.032	4.925	5.308	5.019	4.890	5.280
13	CCV	4.938	5.100	5.280	5.122	5.057	5.311
14	CCB	.0000	.0088	-.0060	-.0050	.0001	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	4.963	5.141	5.098	4.958	5.118	5.102
2	ICB	-.0269	.0017	.0006	-.0010	.0011	.0009
3	ICSA	-.0278	239.5	-.0002	.0093	.0024	.0059
4	ICSAB	-.0179	240.9	.9317	.0152	.4642	.4737
5	PREPBLKTJA	-.0285	-.0016	.0000	.0053	.0024	.0009
6	S95T001329_L	-1201.	2102.	61.93	-305.7	150.8	22.82
7	S95T001329	-721.7	2650.	2.696	-186.8	16.37	104.7
8	S95T001329_D	-228.2	2266.	-5.436	-67.15	73.15	153.5
9	S95T001329_A	22390.	27130.	24340.	22170.	24080.	24040.
10	ICSA	-.0163	254.9	-.0019	.0050	.0011	.0060
11	ICSAB	-.0056	257.2	.9913	.0190	.4864	.4965
12	CCV	5.070	5.064	5.370	4.976	5.329	5.307
13	CCV	5.209	5.226	5.250	5.178	5.253	5.217
14	CCB	.0076	-.0000	.0008	.0034	-.0018	.0003

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.959	.0089	5.072	4.964	4.955	4.858
2	ICB	-.0002	.0008	-.0007	-.0862	.0010	.0009
3	ICSA	-.0111	.0152	91.53	-.0630	-.0031	.0032
4	ICSAB	.4609	.0148	91.29	-.0289	-.0028	.9450
5	PREPBLKTJA	.0009	.0019	.0006	312.5	.0015	.0018
6	S95T001329_L	58.62	109.7	20920.	8695e3	23.40	83.91
7	S95T001329	31.88	40.55	20050.	8567e3	5.247	52.74
8	S95T001329_D	48.62	56.47	20740.	6364e3	9.606	70.22
9	S95T001329_A	21940.	122.5	44110.	8523e3	22040.	20630.
10	ICSA	-.0122	-.0080	94.99	-.0547	-.0033	.0053
11	ICSAB	.4613	-.0099	95.16	.0547	-.0027	.9273
12	CCV	4.953	.0124	5.262	Q4.463	4.964	4.716
13	CCV	5.162	.0071	5.211	5.052	5.158	5.103
14	CCB	-.0002	-.0001	.0001	.1414	.0010	.0004

DK Lab
8-10-95

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.954	4.933	5.077	4.860	5.075	5.057
2	ICB	.0054	.0004	-.0011	.0084	.0029	-.0003
3	ICSA	246.5	-.0068	-.0071	188.3	.0063	-.0161
4	ICSAB	246.3	.4381	-.0067	187.7	.0042	.8991
5	PREPBLKTJA	.0043	.0013	.0014	.1049	.0030	.0959
6	S95T001329_L	-873.7	169.4	-58.91	113900.	-181.7	3694.
7	S95T001329_	468.5	136.6	-61.01	112900.	-49.07	3925.
8	S95T001329_D	578.9	145.3	-62.05	113100.	90.33	3060.
9	S95T001329_A	22660.	22630.	24000.	132400.	22470.	27630.
10	ICSA	251.9	-.0062	-.0059	188.3	.0041	-.0206
11	ICSAB	251.0	.4576	-.0066	185.9	.0045	.9382
12	CCV	4.987	5.152	5.292	4.827	5.070	5.320
13	CCV	5.072	5.093	5.220	5.060	5.289	5.195
14	CCB	-.0073	-.0001	-.0010	.0000	-.0015	.0017

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.288	5.100	5.063	4.805	5.021	4.990
2	ICB	-.0032	.0055	.0005	.0032	.0385	.0074
3	ICSA	.0079	.0263	-.0172	-.0074	-.0241	.0070
4	ICSAB	-.0379	.9742	-.0347	.0108	-.0234	.0071
5	PREPBLKTJA	.0040	.0086	.0003	.0026	.0504	.0445
6	S95T001329_L	22000.	226.9	6597.	332.8	4114.	5525.
7	S95T001329_	21990.	347.6	6478.	3.815	248.3	1851.
8	S95T001329_D	22540.	464.9	6780.	-86.60	629.2	1029.
9	S95T001329_A	47220.	24980.	30260.	22600.	24850.	24540.
10	ICSA	-.0105	.0394	-.0246	.0070	.0302	.0166
11	ICSAB	-.0346	1.052	-.0331	-.0082	.0359	.0189
12	CCV	5.048	5.383	5.260	4.959	5.278	5.170
13	CCV	5.201	5.201	5.208	4.922	5.169	4.976
14	CCB	.0116	-.0041	.0041	-.0013	-.0148	-.0046

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.950	4.873	.0127	4.852	4.935	9.864
2	ICB	.0082	.0002	.0028	-.0002	-.0011	.0317
3	ICSA	.0020	.0018	.0016	.0012	.0406	.0464
4	ICSAB	.0043	.0019	-.0021	.0010	.0288	.0546
5	PREPBLKTJA	.0203	.0004	.0078	.0000	-.0134	-.0073
6	S95T001329_L	790.6	588.6	651.4	-44.67	-4.928	18720.
7	S95T001329_	383.6	568.8	131.7	32.64	-613.4	15420.
8	S95T001329_D	606.3	570.3	-61.16	59.06	129.8	17180.
9	S95T001329_A	22610.	22180.	128.6	22150.	23730.	60340.
10	ICSA	.0184	.0018	.0015	.0012	.0077	.0184
11	ICSAB	.0240	.0017	.0017	.0010	.0581	.0147
12	CCV	4.949	4.866	.0095	4.911	5.124	9.883
13	CCV	5.181	5.049	.0060	5.033	5.089	10.29
14	CCB	-.0004	.0000	.0048	.0002	.0202	-.0028

JK 8/10
8-10-95

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	V	Y	Zn	Zr		
1	ICV	5.077	.0145	5.090	4.956		
2	ICB	.0024	.0005	.0009	.0017		
3	ICSA	-.0004	.0082	-.0031	-.0021		
4	ICSAB	.4614	.0082	.9610	-.0020		
5	PREPBLKTJA	.0039	.0010	-.0002	.0029		
6	S95T001329_L	246.3	81.29	317.7	151.1		
7	S95T001329	107.1	34.32	129.2	56.41		
8	S95T001329_D	153.2	51.15	114.6	86.45		
9	S95T001329_A	23650.	130.1	23980.	22550.		
10	ICSA	.0039	.0096	-.0026	.0008		
11	ICSAB	.4812	.0098	1.007	.0007		
12	CCV	5.215	.0161	5.309	5.039		
13	CCV	5.225	.0139	5.177	5.126		
14	CCB	-.0006	.0000	-.0007	.0005		

WHC-SD-WM-DP-154, REV. 0

DK Kato
8-10-95

File: 950830B.TXT

LABCORE Data Entry Template for Worklist# 2046

Analyst: JK Scott **Instrument:** ICP01-2 (8-30-95) **Book#** 46848

Method: LA-505-~~151~~/161 (8-31-95) Rev/Mod B-0

Worklist Comment: ICP BX-109 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T001471	0	F	@ICP-F01	SOLID	95000059	BX-109

Analytes Requested: AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01

7	DUP	S95T001471	0	F	@ICP-F01	SOLID		
8	SPK	S95T001471	0	F	@ICP-F01	SOLID		
9	ICSA				@ICP-QC	QC		
10	ICSAB				@ICP-QC	QC		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		

Final page for worklist # 2046

JK Scott 08-30-95
Analyst Signature Date

Reviewed + Validated by:
Samuel M. Pangan 08/31/95
Analyst Signature Date

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2046

S Type	Sample#	R	A	Test	Matrix	Group#	Project

WHC-SD-WM-DP-154, REV. 0

PrepBlkTJG , 25-10 ml

S95TOC1471_L , .2609 g → 250 ml , 0.25-10-2.8 ml , (125 x 250)/.2609 = 196435.4

S95TOC1471 , .2609 g → 250 0.25-10 (41 x 250)/.2609 = 39287.1

S95TOC1471_D .2452 g → 250 0.25-10 (41 x 250)/.2452 = 38650.1

S95TOC1471_Q , .2609 g → 250 0.25-10 (41 x 250)/.2609 = 39287.1 0.25ml spike/c + 2ml SSTS + 8ml HNO_3

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950830B	ICP2	08/30/95	13:14	DKS	Q	CONC
2	ICB	950830B	ICP2	08/30/95	13:18	DKS	Q	CONC
3	ICSA	950830B	ICP2	08/30/95	13:21	DKS	Q	CONC
4	ICSAB	950830B	ICP2	08/30/95	13:24	DKS	Q	CONC
5	PREPBLKTJA	950830B	ICP2	08/30/95	13:31	DKS	S	CONC
6	S95T001471_L	950830B	ICP2	08/30/95	13:35	DKS	S	CONC
7	S95T001471	950830B	ICP2	08/30/95	13:39	DKS	S	CONC
8	S95T001471_D	950830B	ICP2	08/30/95	13:43	DKS	S	CONC
9	S95T001471_A	950830B	ICP2	08/30/95	13:49	DKS	S	CONC
10	ICSA	950830B	ICP2	08/30/95	13:59	DKS	Q	CONC
11	ICSAB	950830B	ICP2	08/30/95	14:02	DKS	Q	CONC
12	CCV	950830B	ICP2	08/30/95	14:08	DKS	Q	CONC
13	CCB	950830B	ICP2	08/30/95	14:11	DKS	Q	CONC

WHC-SD-WM-DP-154, REV. 0

08-30-95

BK-109 S95T001471

Worklist #2044

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 462 TO 465.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.910	5.063	5.155	5.149	5.086	5.229
2	ICB	.0009	-.0023	-.0092	.0077	.0002	.0002
3	ICSA	-.0001	246.8	-.0529	.0027	.0017	.0002
4	ICSAB	.9366	245.3	-.0561	.0015	.4622	.4742
5	PREPBLKTJA	.0008	-.0008	-.0131	.0059	.0006	.0000
6	S95T001471_L	76.54	357.4	-1138.	282.6	79.19	-1.027
7	S95T001471	-42.39	2121.	-308.6	100.7	63.83	-.7521
8	S95T001471_D	42.38	2390.	-262.5	11.19	68.33	4.571
9	S95T001471_A	33060.	39200	38710.	37180.	35740.	38070.
10	ICSA	-.0003	242.4	-.0360	-.0037	.0017	.0002
11	ICSAB	.9223	238.9	-.0392	.0004	.4463	.4693
12	CCV	4.767	4.803	4.966	4.910	4.762	5.018
13	CCB	.0016	-.0057	-.0084	.0064	.0001	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.062	5.124	5.172	5.181	5.159	5.192
2	ICB	.0089	.0009	-.0011	.0051	.0017	.0013
3	ICSA	.0035	247.0	.0004	.0073	.0032	.0072
4	ICSAB	-.0019	246.4	.9461	.0124	.4689	.4799
5	PREPBLKTJA	.0163	.0731	-.0014	-.0022	.0006	.0011
6	S95T001471_L	813.6	16600.	-139.8	144.9	116.9	565.8
7	S95T001471	867.8	5905.	-.7779	-74.33	76.41	171.8
8	S95T001471_D	1339.	5311.	-6.908	101.8	29.12	235.4
9	S95T001471_A	38790.	44140	38790.	37000.	38570.	39010.
10	ICSA	.0203	252.4	-.0003	.0125	.0031	.0074
11	ICSAB	.0307	249.8	.9489	.0106	.4688	.4804
12	CCV	4.844	5.179	5.050	4.870	5.019	5.073
13	CCB	-.0017	.0020	-.0006	.0016	.0000	.0009

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.216	.0063	5.185	5.028	5.151	5.115
2	ICB	.0006	.0001	.0000	.0021	.0008	.0006
3	ICSA	-.0102	-.0093	93.28	.1273	-.0044	.0034
4	ICSAB	.4731	-.0090	92.37	.2826	-.0032	.9803
5	PREPBLKTJA	.0013	.0021	.0068	432.7	-.0000	.0017
6	S95T001471_L	139.6	460.3	23340.	13e6	46.25	438.2
7	S95T001471	44.50	92.25	22560	13e6	-7.035	106.7
8	S95T001471_D	83.89	104.2	22470.	17e6	5.669	123.7
9	S95T001471_A	37430.	130.5	61260	13e6	36800.	35640.
10	ICSA	-.0096	-.0248	93.31	.1545	-.0041	.0046
11	ICSAB	.4581	-.0213	91.96	.1035	-.0044	.9354
12	CCV	4.904	.0087	5.010	4.857	4.850	4.730
13	CCB	-.0001	.0029	-.0002	.0921	.0003	.0023

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.001	5.086	5.187	5.074	5.279	5.157
2	ICB	.0034	.0001	.0011	.0025	.0009	-.0011
3	ICSA	248.5	-.0061	-.0066	191.9	.0031	-.0265
4	ICSAB	246.9	.4485	-.0064	191.1	.0018	.9060
5	PREPBLKTJA	.0131	.0014	.0001	.1455	.0026	.2155
6	S95T001471_L	1539.	309.7	49.33	118600.	123.7	6323.
7	S95T001471	466.7	183.3	-3.145	114500	-.9591	7564
8	S95T001471_D	1174.	189.8	8.799	114900.	163.6	9028.
9	S95T001471_A	37120.	37020.	38780.	151800	37580.	46000
10	ICSA	245.6	-.0057	-.0058	185.6	.0052	-.0214
11	ICSAB	242.0	.4468	-.0049	183.6	.0007	.8948
12	CCV	4.786	4.924	5.031	4.744	4.948	4.995
13	CCB	.0016	.0010	-.0001	.0210	.0009	-.0093

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.157	5.140	5.092	4.850	5.082	4.926
2	ICB	.0000	-.0059	-.0128	.0003	-.0013	.0058
3	ICSA	.0708	.0190	-.0096	-.0086	-.0864	.0137
4	ICSAB	.0156	.9789	-.0142	.0082	-.0975	.0106
5	PREPBLKTJA	.0138	-.0001	.0145	-.0039	.0152	.0176
6	S95T001471_L	24970.	-1244.	9679.	582.6	3927.	4084.
7	S95T001471	21370	570.6	6975	226.0	699.5	1366.
8	S95T001471_D	22340.	407.7	7112.	19.94	607.5	1500.
9	S95T001471_A	60050	39270.	44990	36130.	38780.	38570.
10	ICSA	.0858	.0250	-.0183	-.0053	-.0559	.0179
11	ICSAB	.0156	.9909	-.0229	.0030	-.0499	.0180
12	CCV	4.888	5.070	4.952	4.696	4.942	4.807
13	CCB	.0236	.0035	-.0009	-.0040	.0336	.0160

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.171	5.033	.0043	4.945	4.988	10.26
2	ICB	.0048	.0000	-.0000	.0002	.0108	.0122
3	ICSA	-.0013	.0017	-.0048	.0014	.0470	-.0164
4	ICSAB	.0020	.0016	-.0040	.0016	.0547	-.0183
5	PREPBLKTJA	.0195	.0004	.0029	.0000	.0105	-.0413
6	S95T001471_L	4089.	657.5	-471.8	164.7	107.1	31660.
7	S95T001471	890.1	607.9	-87.27	72.71	569.9	16380.
8	S95T001471_D	1077.	611.9	160.4	71.82	-204.4	15780.
9	S95T001471_A	37350.	36610	-.8057	36430.	35540.	88700.
10	ICSA	.0148	.0015	-.0062	.0018	.0092	-.0338
11	ICSAB	.0121	.0015	-.0008	.0012	.0347	-.0363
12	CCV	4.838	4.748	.0000	4.734	4.891	9.636
13	CCB	.0282	.0004	-.0066	.0002	.0185	.1157

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	V	Y	Zn	Zr		
1	ICV	5.149	.0136	5.142	5.098		
2	ICB	-.0000	.0003	-.0010	-.0000		
3	ICSA	-.0001	.0082	-.0056	-.0018		
4	ICSAB	.4675	.0085	.9695	-.0019		
5	PREPBLKTJA	.0036	.0013	.0207	.0029		
6	S95T001471_L	862.8	338.8	4413.	670.3		
7	S95T001471	176.2	67.76	1022	123.2		
8	S95T001471_D	204.6	84.84	1009.	101.4		
9	S95T001471_A	38190.	166.3	39810	37150.		
10	ICSA	.0035	.0093	-.0056	.0008		
11	ICSAB	.4672	.0091	.9681	.0007		
12	CCV	4.976	.0146	5.067	4.865		
13	CCB	.0058	.0018	.0003	.0038		

WHC-SD-WM-DP-154, REV. 0

JK Gold
08-30-95

THIS PAGE WAS INTENTIONALLY LEFT BLANK

File # 095-05-18

LABCORE Data Entry Template for Worklist# 1288

Analyst: B. Gorene **Instrument:** ~~ICP01~~ Icp02 **Book#** 4/64A

Method: LA-505-~~151~~ 161 Rev/Mod A-1

Worklist Comment: ICP BX-109 DIRECT

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	SAMPLE	S95T000784	0	D	@ICP-D01	LIQUID	95000059	BX-109
	Analytes Requested:	AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01			
6	DUP	S95T000784	0	D	@ICP-D01	LIQUID		
7	SPK	S95T000784	0	D	@ICP-D01	LIQUID		
8	CCV				@ICP-QC	QC		
9	CCB				@ICP-QC	QC		
10	SAMPLE	S95T000854	0	D	@ICP-D01	LIQUID	95000059	BX-109
	Analytes Requested:	AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01			
11	DUP	S95T000854	0	D	@ICP-D01	LIQUID		
12	SPK	S95T000854	0	D	@ICP-D01	LIQUID		

Data Entry Comments:

SP 05/24/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1288

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	CCV				@ICP-QC	QC		
14	CCB				@ICP-QC	QC		
15	SAMPLE	S95T000857	0	D	@ICP-D01	LIQUID	95000059	BX-109

Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 ,
BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 ,
CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 ,
MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 ,
P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 ,
SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 ,
ZN-D-01 , ZR-D-01

16	SPK	S95T000857	0	D	@ICP-D01	LIQUID		
17	DUP	S95T000857	0	D	@ICP-D01	LIQUID		
18	ICSA				@ICP-QC	QC		
19	ICSAB				@ICP-QC	QC		
20	CCV				@ICP-QC	QC		
21	CCB				@ICP-QC	QC		

Final page for worklist # 1288

Analyst Signature	Date			Analyst Signature	Date
	5-18-95				
		D.F.	5%		
S95T000854	.025-10	401	205		
Dup	.025-10				
Spk	.025-7-8	401			
S95T000854	.1-10	101	505		
Dup	.1-10				
Spk	.1-7.8	101			
S95T000857	1-9	10	50		
Dup	1-9				
Spk	1-2-7	10			

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1288

Analyst: **Instrument:** ICP01 **Book#**

Method: LA-505-151 Rev/Mod

Worklist Comment: ICP BX-109 DIRECT

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	SAMPLE	S95T000784	0	D	@ICP-D01	LIQUID	95000059	BX-109
	Analytes Requested:	AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01						
6	DUP	S95T000784	0	D	@ICP-D01	LIQUID		
7	SPK	S95T000784	0	D	@ICP-D01	LIQUID		
8	CCV				@ICP-QC	QC		
9	CCB				@ICP-QC	QC		
10	SAMPLE	S95T000854	0	D	@ICP-D01	LIQUID	95000059	BX-109
	Analytes Requested:	AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01						
11	DUP	S95T000854	0	D	@ICP-D01	LIQUID		
12	SPK	S95T000854	0	D	@ICP-D01	LIQUID		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1288

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	CCV				@ICP-QC	QC		
14	CCB				@ICP-QC	QC		
15	SAMPLE	S95T000857	0	D	@ICP-D01	LIQUID	95000059	BX-109

Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 ,
BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 ,
CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 ,
MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 ,
P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 ,
SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 ,
ZN-D-01 , ZR-D-01

16	DUP ✓	S95T000857	0	D	@ICP-D01	LIQUID		
17	SPK ✓	S95T000857	0	D	@ICP-D01	LIQUID		
18	ICSA				@ICP-QC	QC		
19	ICSAB				@ICP-QC	QC		
20	CCV				@ICP-QC	QC		
21	CCB				@ICP-QC	QC		

Final page for worklist # 1288

Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950518B	ICP2	05/18/95	12:52	BJG	Q	CONC
2	ICB	950518B	ICP2	05/18/95	12:56	BJG	Q	CONC
3	ICSA	950518B	ICP2	05/18/95	12:59	BJG	Q	CONC
4	ICSAB	950518B	ICP2	05/18/95	13:03	BJG	Q	CONC
5	S95T000784_L	950518B	ICP2	05/18/95	13:08	BJG	S	CONC
6	S95T000784_	950518B	ICP2	05/18/95	13:12	BJG	S	CONC
7	S95T000784_D	950518B	ICP2	05/18/95	13:15	BJG	S	CONC
8	S95T000784_A	950518B	ICP2	05/18/95	13:19	BJG	S	CONC
~~9~~	~~CCV~~	~~950518B~~	~~ICP2~~	~~05/18/95~~	~~13:26~~	~~BJG~~	~~Q~~	~~CONC~~
10	CCV	950518B	ICP2	05/18/95	13:47	BJG	Q	CONC
11	CCB	950518B	ICP2	05/18/95	13:51	BJG	Q	CONC
12	S95T000854_L	950518B	ICP2	05/18/95	13:55	BJG	S	CONC
13	S95T000854_	950518B	ICP2	05/18/95	13:59	BJG	S	CONC
14	S95T000854_D	950518B	ICP2	05/18/95	14:02	BJG	S	CONC
15	S95T000854_A	950518B	ICP2	05/18/95	14:06	BJG	S	CONC
16	CCV_1	950518B	ICP2	05/18/95	14:12	BJG	Q	CONC
17	CCB_1	950518B	ICP2	05/18/95	14:16	BJG	Q	CONC
18	S95T000857	950518B	ICP2	05/18/95	14:19	BJG	S	CONC
19	S95T000857_D	950518B	ICP2	05/18/95	14:23	BJG	S	CONC
20	S95T000857_A	950518B	ICP2	05/18/95	14:26	BJG	S	CONC
21	ICSA	950518B	ICP2	05/18/95	14:30	BJG	Q	CONC
22	ICSAB	950518B	ICP2	05/18/95	14:33	BJG	Q	CONC
23	CCV_2	950518B	ICP2	05/18/95	14:37	BJG	Q	CONC
24	CCB_2	950518B	ICP2	05/18/95	14:41	BJG	Q	CONC

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

5-18-95
S95T000784, 854, 857
BK-109

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 441 TO 482.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.988	5.064	5.205	5.066	5.048	5.255
2	ICB	.0018	.0022	-.0100	.0142	.0001	.0003
3	ICSA	.0007	242.7	-.0007	.0008	.0033	.0003
4	ICSAB	.9707	248.1	.0083	.0050	.4745	.4832
5	S95T000784_L	3.090	1.378	-9.714	32.61	.2630	.3149
6	S95T000784	.7569	4.391	-6.349	30.98	.0846	.0778
7	S95T000784_D	.2362	2.446	-5.173	32.61	.0693	.0780
8	S95T000784_A	340.0	399.2	412.0	431.3	393.6	408.3
9	CCV	5.161	5.213	5.408	5.174	5.233	5.468
10	CCV	5.113	5.140	5.328	5.105	5.118	5.385
11	CCB	-.0037	.0010	.0030	.0045	.0000	.0000
12	S95T000854_L	-1.744	-2.148	-222.6	13.19	.0828	.0005
13	S95T000854	-.3210	.5055	-288.2	11.77	.0137	-.0005
14	S95T000854_D	-.3368	.1414	-301.4	11.21	-.0003	-.0005
15	S95T000854_A	77.90	97.94	-267.3	110.2	96.29	101.8
16	CCV_1	5.069	5.076	5.251	5.040	5.029	5.367
17	CCB_1	Q.0186	-.0043	-.0108	.0075	.0002	-.0001
18	S95T000857	-.0127	-.0078	.0012	2.433	.0025	.0000
19	S95T000857_D	-.0448	.0263	.0918	2.484	.0014	.0008
20	S95T000857_A	9.664	10.00	10.29	12.44	9.921	10.40
21	ICSA	-.0013	245.9	-.0048	.0074	.0032	.0001
22	ICSAB	.9652	246.4	-.0149	.0030	.4655	.4855
23	CCV_2	5.088	5.133	5.284	5.116	5.085	5.381
24	CCB_2	Q.0133	.0012	-.0052	.0080	.0003	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.189	5.088	5.149	5.108	5.187	5.159
2	ICB	.0611	-.0047	-.0009	-.0000	-.0003	-.0000
3	ICSA	.0904	246.2	-.0008	.0114	.0005	-.0057
4	ICSAB	.1278	252.2	.9505	.0064	.4695	.4698
5	S95T000784_L	97.16	-22.23	-3.203	-8.821	-4.464	110.8
6	S95T000784	18.98	23.96	-.7187	.7478	.6603	109.6
7	S95T000784_D	21.25	25.83	-.8114	-.1964	1.327	107.7
8	S95T000784_A	417.5	394.8	399.2	403.3	405.8	515.6
9	CCV	5.337	5.425	5.372	5.264	5.404	5.387
10	CCV	5.296	5.292	5.316	5.200	5.324	5.313
11	CCB	.0272	-.0002	-.0013	-.0044	-.0003	-.0003
12	S95T000854_L	17.93	-6.071	-1.479	-.8536	-.0060	16.47
13	S95T000854	1.786	9.845	-1.286	2.443	.6596	16.40
14	S95T000854_D	3.127	8.892	-1.362	2.354	.6872	16.60
15	S95T000854_A	104.1	102.3	99.48	103.2	102.2	119.3
16	CCV_1	5.244	5.354	5.344	5.123	5.348	5.341
17	CCB_1	.0549	.0066	-.0014	-.0005	-.0008	.0009
18	S95T000857	.3959	1.165	-.0122	-.0291	-.0081	-.0058
19	S95T000857_D	.2494	1.155	-.0034	-.0820	-.0055	.0016
20	S95T000857_A	10.44	11.53	10.37	10.28	10.52	10.52
21	ICSA	.0718	257.7	-.0011	.0010	-.0005	-.0065
22	ICSAB	.0747	254.9	.9636	-.0006	.4745	.4756
23	CCV_2	5.283	5.344	5.314	5.186	5.324	5.320
24	CCB_2	.0327	.0046	-.0001	-.0020	-.0014	-.0006

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.167	.0096	5.140	4.844	5.081	5.088
2	ICB	.0000	-.0005	-.0002	-.1378	-.0001	-.0005
3	ICSA	-.0060	.0268	92.17	-.0187	-.0038	.0018
4	ICSAB	.4904	.0214	93.59	-.2117	-.0044	.9861
5	S95T000784_L	-.1806	-1.899	4.662	213.5	-2.266	6.536
6	S95T000784_	.1407	-.1801	5.963	185.0	.0600	7.735
7	S95T000784_D	.0491	-.2272	5.306	273.1	-.4352	7.698
8	S95T000784_A	403.8	.4822	409.7	636.4	402.2	410.7
9	CCV	5.290	.0104	5.360	5.031	5.269	5.186
10	CCV	5.180	.0110	5.282	4.918	5.193	5.086
11	CCB	.0000	.0001	.0007	-.1288	-.0002	.0002
12	S95T000854_L	.4903	-.3339	1.173	-9.335	-.2792	1611.
13	S95T000854_	.0679	-.0102	1.486	16.50	-.0335	1550.
14	S95T000854_D	.0893	-.0269	1.372	9.210	-.1460	1557.
15	S95T000854_A	98.52	.1850	102.5	115.7	99.27	1688.
16	CCV_1	5.093	.0114	5.288	4.822	5.119	4.958
17	CCB_1	-.0002	.0012	.0022	.0050	.0004	.0013
18	S95T000857	-.0000	.0026	.0874	-1.338	-.0013	.0206
19	S95T000857_D	.0022	-.0023	.0830	-.3719	-.0176	.0188
20	S95T000857_A	10.11	.0232	10.54	10.16	10.24	9.981
21	ICSA	-.0059	.0163	95.40	-.0430	-.0043	.0030
22	ICSAB	.4810	.0212	94.14	-.0885	-.0049	.9637
23	CCV_2	5.164	.0114	5.275	4.889	5.174	5.114
24	CCB_2	-.0004	.0005	.0016	-.0233	.0002	.0006

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.067	5.051	5.160	5.042	5.216	5.128
2	ICB	-.0047	.0001	.0025	-.0024	.0000	-.0017
3	ICSA	247.6	.0004	-.0118	193.6	.0177	-.0125
4	ICSAB	249.3	.4592	-.0163	195.0	.0155	.9345
5	S95T000784_L	-12.15	-.6610	19.89	156400.	-5.575	8.752
6	S95T000784_	-1.211	.0658	15.99	148800.	-.3564	5.205
7	S95T000784_D	.0342	.0496	15.68	148500.	.4548	3.662
8	S95T000784_A	382.9	387.7	426.8	151400.	413.4	397.7
9	CCV	5.191	5.251	5.344	5.151	5.388	5.372
10	CCV	5.131	5.198	5.236	5.040	5.299	5.242
11	CCB	.0002	.0001	.0019	.0003	-.0005	-.0076
12	S95T000854_L	-1.369	.1216	1.617	28600.	-.4201	4.626
13	S95T000854_	-2.021	.2841	1.530	27330.	-.1028	3.978
14	S95T000854_D	-2.600	.2804	1.682	27430.	-.2442	4.167
15	S95T000854_A	91.97	97.36	103.0	28120.	101.8	103.3
16	CCV_1	5.089	5.190	5.232	4.945	5.219	5.295
17	CCB_1	.0072	.0003	.0010	.0081	.0036	-.0042
18	S95T000857	.0727	.0083	-.0037	6.758	-.0115	-.1034
19	S95T000857_D	.1173	.0077	.0150	6.802	-.0159	-.0471
20	S95T000857_A	10.06	10.02	10.30	16.54	10.46	10.33
21	ICSA	251.2	.0011	-.0162	192.5	.0157	-.0266
22	ICSAB	247.5	.4621	-.0160	190.8	.0159	.9173
23	CCV_2	5.129	5.177	5.215	5.086	5.294	5.266
24	CCB_2	-.0014	.0003	.0068	.0010	-.0013	-.0005

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.395	5.146	5.173	4.891	5.135	4.828
2	ICB	.0232	-.0053	-.0058	.0003	.0289	.0008
3	ICSA	.1758	.0398	-.0126	-.0079	.0973	.0354
4	ICSAB	.1993	1.013	-.0137	-.0038	.1291	.0318
5	S95T000784_L	7775.	-22.61	10090.	-27.82	30.35	-12.55
6	S95T000784_	7731.	-1.486	10010.	.7650	-14.06	5.418
7	S95T000784_D	7624.	5.096	9919.	-1.639	-11.44	5.262
8	S95T000784_A	8179.	399.6	10440.	378.4	396.0	386.4
9	CCV	Q5.661	5.377	5.355	5.033	5.322	5.000
10	CCV	5.248	5.293	5.222	4.964	5.183	4.936
11	CCB	.0069	-.0022	.0058	.0009	.0138	.0025
12	S95T000854_L	848.2	-4.990	1663.	-.2646	5.626	6.000
13	S95T000854_	859.5	3.070	1665.	.6442	4.930	9.974
14	S95T000854_D	859.8	3.676	1661.	.0467	4.747	10.05
15	S95T000854_A	997.7	105.5	1821.	93.22	106.4	106.6
16	CCV_1	5.243	5.351	5.198	4.933	5.215	4.931
17	CCB_1	.0134	.0163	.0063	-.0029	.0246	.0063
18	S95T000857	.4181	.0745	2.220	-.0103	.2079	5.866
19	S95T000857_D	.2971	.1223	2.046	.0487	.2861	5.947
20	S95T000857_A	10.69	10.42	11.63	9.428	10.20	15.98
21	ICSA	.1561	.0557	-.0004	-.0003	.1229	.0364
22	ICSAB	.1689	1.040	.0009	.0038	.1137	.0336
23	CCV_2	5.303	5.295	5.262	4.944	5.254	4.942
24	CCB_2	.0138	.0070	.0075	.0128	.0156	.0043

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.104	5.005	-.0204	4.969	5.028	10.13
2	ICB	-.0067	.0000	-.0015	-.0005	-.0141	-.0271
3	ICSA	-.0143	.0006	-.0229	.0004	.0821	.1252
4	ICSAB	-.0127	.0008	-.0200	.0006	.0388	.0894
5	S95T000784_L	-20.74	-.2517	-8.921	-.9152	-14.79	176.4
6	S95T000784_	-2.367	.1338	.5734	.9698	-2.858	234.2
7	S95T000784_D	-2.780	.1506	-.8067	1.146	-7.777	237.5
8	S95T000784_A	400.4	395.8	-2.669	393.3	385.4	1050.
9	CCV	5.270	5.187	-.0207	5.152	5.131	10.45
10	CCV	5.202	5.091	-.0106	5.040	5.080	10.23
11	CCB	.0001	.0001	.0020	-.0002	-.0255	-.0088
12	S95T000854_L	-4.567	.0419	-.6057	-.2252	-21.09	60.92
13	S95T000854_	-.3940	.1079	.7037	.1742	-8.734	75.19
14	S95T000854_D	-.2238	.1038	1.095	.1963	-13.57	75.40
15	S95T000854_A	99.01	97.48	.5612	96.61	83.89	273.6
16	CCV_1	5.110	5.028	-.0133	4.997	5.147	10.05
17	CCB_1	.0136	.0003	-.0012	.0002	-.0175	.0421
18	S95T000857	.0300	.0028	.0059	.0217	-.0900	.0180
19	S95T000857_D	-.0358	.0020	-.0271	.0151	-.0760	-.1529
20	S95T000857_A	10.20	10.02	-.0507	9.895	9.710	20.19
21	ICSA	-.0018	.0008	-.0194	.0004	.0273	.0476
22	ICSAB	-.0053	.0008	-.0151	.0004	.0556	.0616
23	CCV_2	5.182	5.085	-.0136	5.029	5.114	10.19
24	CCB_2	.0053	.0002	.0023	.0000	-.0452	.0093

WHC-SD-WM-DP-154, REV.0

BEST AVAILABLE COPY

#	Sample Name	V	Y	Zn	Zr		
1	ICV	5.075	.0118	5.223	5.050		
2	ICB	-.0016	-.0005	-.0003	-.0017		
3	ICSA	.0004	.0097	-.0031	-.0026		
4	ICSAB	.4749	.0100	.9761	-.0031		
5	S95T000784_L	-4.771	-1.414	-8.565	-5.096		
6	S95T000784	-.4232	-.1257	-6.523	-.2168		
7	S95T000784_D	-.3511	-.1257	-3.896	-.1117		
8	S95T000784_A	401.4	.8485	395.1	396.5		
9	CCV	5.273	.0128	5.415	5.243		
10	CCV	5.159	.0127	5.323	5.144		
11	CCB	.0000	-.0001	.0003	-.0001		
12	S95T000854_L	-.8448	-.2771	-2.215	-.3052		
13	S95T000854	.0291	.0000	-2.028	-.0797		
14	S95T000854_D	-.0089	-.0158	-2.141	-.1416		
15	S95T000854_A	99.42	.2454	97.59	98.06		
16	CCV_1	5.156	.0133	5.368	5.110		
17	CCB_1	.0023	.0006	-.0006	.0004		
18	S95T000857	.0054	.0000	.2868	.0025		
19	S95T000857_D	-.0070	-.0024	.3187	.0022		
20	S95T000857_A	10.13	.0243	10.48	10.01		
21	ICSA	.0030	.0107	-.0016	-.0008		
22	ICSAB	.4746	.0106	.9837	-.0008		
23	CCV_2	5.165	.0131	5.338	5.132		
24	CCB_2	.0009	.0001	.0009	.0001		

WHC-SD-WM-DP-154, REV. 0

SP 05/24/95

BEST AVAILABLE COPY

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1288	1			ICV	AG				4.9883		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
2	1288	1			ICV	AL				5.0641		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
3	1288	1			ICV	AS				5.2050		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
4	1288	1			ICV	B				5.0982		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
5	1288	1			ICV	BA				5.0476		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
6	1288	1			ICV	BE				5.2547		1.0000	05/18/95	12:52	bg	0.005	@ICP-QC			
7	1288	1			ICV	BI				5.1895		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
8	1288	1			ICV	CA				5.0676		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
9	1288	1			ICV	CD				5.1488		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
10	1288	1			ICV	CE				5.1061		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
11	1288	1			ICV	CO				5.1868		1.0000	05/18/95	12:52	bg	0.02	@ICP-QC			
12	1288	1			ICV	CR				5.1585		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
13	1288	1			ICV	CU				5.1670		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
14	1288	1			ICV	EU				0.0096		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
15	1288	1			ICV	FE				5.1404		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
16	1288	1			ICV	K				4.8440		1.0000	05/18/95	12:52	bg	0.3	@ICP-QC			
17	1288	1			ICV	LA				5.0808		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
18	1288	1			ICV	LI				5.0882		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
19	1288	1			ICV	MG				5.0675		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
20	1288	1			ICV	MN				5.0515		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
21	1288	1			ICV	MO				5.1805		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
22	1288	1			ICV	NA				5.0418		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
23	1288	1			ICV	ND				5.2165		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
24	1288	1			ICV	NI				5.1282		1.0000	05/18/95	12:52	bg	0.02	@ICP-QC			
25	1288	1			ICV	P				5.3952		1.0000	05/18/95	12:52	bg	0.2	@ICP-QC			
26	1288	1			ICV	PB				5.1460		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
27	1288	1			ICV	S				5.1734		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
28	1288	1			ICV	SB				4.8909		1.0000	05/18/95	12:52	bg	0.2	@ICP-QC			
29	1288	1			ICV	SE				5.1351		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
30	1288	1			ICV	SI				4.8277		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
31	1288	1			ICV	SM				5.1035		1.0000	05/18/95	12:52	bg	0.1	@ICP-QC			
32	1288	1			ICV	SR				5.0054		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
33	1288	1			ICV	TH				-0.0204		1.0000	05/18/95	12:52	bg	0	@ICP-QC			
34	1288	1			ICV	TI				4.9695		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
35	1288	1			ICV	TL				5.0277		1.0000	05/18/95	12:52	bg	0.2	@ICP-QC			
36	1288	1			ICV	U				10.1348		1.0000	05/18/95	12:52	bg	0.4	@ICP-QC			
37	1288	1			ICV	V				5.0748		1.0000	05/18/95	12:52	bg	0.05	@ICP-QC			
38	1288	1			ICV	Y				0.0118		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
39	1288	1			ICV	ZN				5.2231		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
40	1288	1			ICV	ZR				5.0504		1.0000	05/18/95	12:52	bg	0.01	@ICP-QC			
41	1288	2			ICB	AG				0.0018		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
42	1288	2			ICB	AL				0.0022		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
43	1288	2			ICB	AS				-0.0100		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
44	1288	2			ICB	B				0.0142		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
45	1288	2			ICB	BA				0.0001		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
46	1288	2			ICB	BE				0.0003		1.0000	05/18/95	12:56	bg	0.005	@ICP-QC			
47	1288	2			ICB	BI				0.0011		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
48	1288	2			ICB	CA				-0.0047		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
49	1288	2			ICB	CD				-0.0009		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
50	1288	2			ICB	CE				-0.0000		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
51	1288	2			ICB	CO				-0.0003		1.0000	05/18/95	12:56	bg	0.02	@ICP-QC			
52	1288	2			ICB	CR				-0.0000		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
53	1288	2			ICB	CU				0.0000		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
54	1288	2			ICB	EU				-0.0005		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
55	1288	2			ICB	FE				-0.0002		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
56	1288	2			ICB	K				-0.1378		1.0000	05/18/95	12:56	bg	0.3	@ICP-QC			
57	1288	2			ICB	LA				-0.0001		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
58	1288	2			ICB	LI				-0.0005		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
59	1288	2			ICB	MG				-0.0047		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
60	1288	2			ICB	MN				0.0001		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
61	1288	2			ICB	MO				0.0025		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
62	1288	2			ICB	NA				-0.0024		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
63	1288	2			ICB	ND				0.0000		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
64	1288	2			ICB	NI				-0.0017		1.0000	05/18/95	12:56	bg	0.02	@ICP-QC			
65	1288	2			ICB	P				0.0232		1.0000	05/18/95	12:56	bg	0.2	@ICP-QC			
66	1288	2			ICB	PB				-0.0053		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
67	1288	2			ICB	S				-0.0058		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
68	1288	2			ICB	SB				0.0003		1.0000	05/18/95	12:56	bg	0.2	@ICP-QC			
69	1288	2			ICB	SE				0.0289		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
70	1288	2			ICB	SI				0.0008		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
71	1288	2			ICB	SM				-0.0067		1.0000	05/18/95	12:56	bg	0.1	@ICP-QC			
72	1288	2			ICB	SR				0.0000		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
73	1288	2			ICB	TH				-0.0015		1.0000	05/18/95	12:56	bg	0	@ICP-QC			
74	1288	2			ICB	TI				-0.0005		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
75	1288	2			ICB	TL				-0.0141		1.0000	05/18/95	12:56	bg	0.2	@ICP-QC			
76	1288	2			ICB	U				-0.0271		1.0000	05/18/95	12:56	bg	0.4	@ICP-QC			
77	1288	2			ICB	V				-0.0018		1.0000	05/18/95	12:56	bg	0.05	@ICP-QC			
78	1288	2			ICB	Y				-0.0005		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
79	1288	2			ICB	ZN				-0.0003		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
80	1288	2			ICB	ZR				-0.0017		1.0000	05/18/95	12:56	bg	0.01	@ICP-QC			
81	1288	3			ICSA	AG				0.0007		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
82	1288	3			ICSA	AL				242.8997		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
83	1288	3			ICSA	AS				-0.0007		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
84	1288	3			ICSA	B				0.0008		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
85	1288	3			ICSA	BA				0.0033		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
86	1288	3			ICSA	BE				0.0003		1.0000	05/18/95	12:59	bg	0.005	@ICP-QC			
87	1288	3			ICSA	BI				0.0904		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
88	1288	3			ICSA	CA				246.1629		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
89	1288	3			ICSA	CD				-0.0008		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
90	1288	3			ICSA	CE				0.0114		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
91	1288	3			ICSA	CO				0.0005		1.0000	05/18/95	12:59	bg	0.02	@ICP-QC			
92	1288	3			ICSA	CR				-0.0057		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
93	1288	3			ICSA	CU				-0.0060		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
94	1288	3			ICSA	EU				0.0268		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
95	1288	3			ICSA	FE				92.1714		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
96	1288	3			ICSA	K				-0.0187		1.0000	05/18/95	12:59	bg	0.3	@ICP-QC			
97	1288	3			ICSA	LA				-0.0038		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
98	1288	3			ICSA	LI				0.0018		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
99	1288	3			ICSA	MG				247.5953		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
100	1288	3			ICSA	MN				0.0004		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
101	1288	3			ICSA	MO				-0.0118		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
102	1288	3			ICSA	NA				193.5601		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
103	1288	3			ICSA	ND				0.0177		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
104	1288	3			ICSA	NI				-0.0125		1.0000	05/18/95	12:59	bg	0.02	@ICP-QC			
105	1288	3			ICSA	P				0.1758		1.0000	05/18/95	12:59	bg	0.2	@ICP-QC			
106	1288	3			ICSA	PB				0.0396		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
107	1288	3			ICSA	S				-0.0126		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
108	1288	3			ICSA	SB				-0.0079		1.0000	05/18/95	12:59	bg	0.2	@ICP-QC			
109	1288	3			ICSA	SE				0.0973		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
110	1288	3			ICSA	SI				0.0354		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
111	1288	3			ICSA	SM				-0.0143		1.0000	05/18/95	12:59	bg	0.1	@ICP-QC			
112	1288	3			ICSA	SR				0.0006		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
113	1288	3			ICSA	TH				-0.0229		1.0000	05/18/95	12:59	bg	0	@ICP-QC			
114	1288	3			ICSA	TI				0.0004		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
115	1288	3			ICSA	TL				0.0821		1.0000	05/18/95	12:59	bg	0.2	@ICP-QC			
116	1288	3			ICSA	U				0.1252		1.0000	05/18/95	12:59	bg	0.4	@ICP-QC			
117	1288	3			ICSA	V				0.0004		1.0000	05/18/95	12:59	bg	0.05	@ICP-QC			
118	1288	3			ICSA	Y				0.0097		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
119	1288	3			ICSA	ZN				-0.0031		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
120	1288	3			ICSA	ZR				-0.0026		1.0000	05/18/95	12:59	bg	0.01	@ICP-QC			
121	1288	4			ICSAB	AG				0.9707		1.0000	05/18/95	13:03	bg	0.01	@ICP-QC			
122	1288	4			ICSAB	AL				248.0890		1.0000	05/18/95	13:03	bg	0.05	@ICP-QC			

476

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
123	1288		4		ICSAB	AS				0.0083		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
124	1288		4		ICSAB	B				0.0050		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
125	1288		4		ICSAB	BA				0.4745		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
126	1288		4		ICSAB	BE				0.4832		1.0000	05/18/95	13:03	bjg	0.005	@ICP-QC			
127	1288		4		ICSAB	BI				0.1278		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
128	1288		4		ICSAB	CA				252.1742		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
129	1288		4		ICSAB	CD				0.9505		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
130	1288		4		ICSAB	CE				0.0064		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
131	1288		4		ICSAB	CO				0.4695		1.0000	05/18/95	13:03	bjg	0.02	@ICP-QC			
132	1288		4		ICSAB	CR				0.4698		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
133	1288		4		ICSAB	CU				0.4904		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
134	1288		4		ICSAB	EU				0.0214		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
135	1288		4		ICSAB	FE				93.5869		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
136	1288		4		ICSAB	K				-0.2117		1.0000	05/18/95	13:03	bjg	0.3	@ICP-QC			
137	1288		4		ICSAB	LA				-0.0044		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
138	1288		4		ICSAB	LI				0.9861		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
139	1288		4		ICSAB	MG				249.3180		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
140	1288		4		ICSAB	MN				0.4592		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
141	1288		4		ICSAB	MO				-0.0183		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
142	1288		4		ICSAB	NA				194.9784		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
143	1288		4		ICSAB	ND				0.0155		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
144	1288		4		ICSAB	NI				0.9345		1.0000	05/18/95	13:03	bjg	0.02	@ICP-QC			
145	1288		4		ICSAB	P				0.1963		1.0000	05/18/95	13:03	bjg	0.2	@ICP-QC			
146	1288		4		ICSAB	PB				1.0127		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
147	1288		4		ICSAB	S				-0.0137		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
148	1288		4		ICSAB	SB				-0.0036		1.0000	05/18/95	13:03	bjg	0.2	@ICP-QC			
149	1288		4		ICSAB	SE				0.1291		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
150	1288		4		ICSAB	SI				0.0318		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
151	1288		4		ICSAB	SM				-0.0127		1.0000	05/18/95	13:03	bjg	0.1	@ICP-QC			
152	1288		4		ICSAB	SR				0.0008		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
153	1288		4		ICSAB	TH				-0.0200		1.0000	05/18/95	13:03	bjg	0	@ICP-QC			
154	1288		4		ICSAB	TI				0.0006		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
155	1288		4		ICSAB	TL				0.0388		1.0000	05/18/95	13:03	bjg	0.2	@ICP-QC			
156	1288		4		ICSAB	U				0.0894		1.0000	05/18/95	13:03	bjg	0.4	@ICP-QC			
157	1288		4		ICSAB	V				0.4749		1.0000	05/18/95	13:03	bjg	0.05	@ICP-QC			
158	1288		4		ICSAB	Y				0.0100		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
159	1288		4		ICSAB	ZN				0.9781		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
160	1288		4		ICSAB	ZR				-0.0031		1.0000	05/18/95	13:03	bjg	0.01	@ICP-QC			
161	1288		5	S95T000784		AG-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
162	1288		5	S95T000784		AL-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
163	1288		5	S95T000784		AS-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
164	1288		5	S95T000784		B-D-01				30.9821		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
165	1288		5	S95T000784		BA-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
166	1288		5	S95T000784		BE-D-01			<	2.0050		401.0000	05/18/95	13:12	bjg	0.005	@ICP-D01			
167	1288		5	S95T000784		BI-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
168	1288		5	S95T000784		CA-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
169	1288		5	S95T000784		CD-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
170	1288		5	S95T000784		CE-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
171	1288		5	S95T000784		CO-D-01			<	8.0200		401.0000	05/18/95	13:12	bjg	0.02	@ICP-D01			
172	1288		5	S95T000784		CR-D-01				109.6037		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
173	1288		5	S95T000784		CU-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
174	1288		5	S95T000784		FE-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
175	1288		5	S95T000784		K-D-01				184.9711		401.0000	05/18/95	13:12	bjg	0.3	@ICP-D01			
176	1288		5	S95T000784		LA-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
177	1288		5	S95T000784		LI-D-01				7.7347		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
178	1288		5	S95T000784		MG-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
179	1288		5	S95T000784		MN-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
180	1288		5	S95T000784		MO-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
181	1288		5	S95T000784		NA-D-01				148760.5781		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
182	1288		5	S95T000784		ND-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
183	1288		5	S95T000784		NI-D-01			<	8.0200		401.0000	05/18/95	13:12	bjg	0.02	@ICP-D01			
184	1288		5	S95T000784		P-D-01				7731.1113		401.0000	05/18/95	13:12	bjg	0.2	@ICP-D01			
185	1288		5	S95T000784		PB-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
186	1288		5	S95T000784		S-D-01				10006.5566		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
187	1288		5	S95T000784		SB-D-01			<	80.2000		401.0000	05/18/95	13:12	bjg	0.2	@ICP-D01			
188	1288		5	S95T000784		SE-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
189	1288		5	S95T000784		SI-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
190	1288		5	S95T000784		SM-D-01			<	40.1000		401.0000	05/18/95	13:12	bjg	0.1	@ICP-D01			
191	1288		5	S95T000784		SR-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
192	1288		5	S95T000784		TI-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
193	1288		5	S95T000784		TL-D-01			<	80.2000		401.0000	05/18/95	13:12	bjg	0.2	@ICP-D01			
194	1288		5	S95T000784		U-D-01				234.2269		401.0000	05/18/95	13:12	bjg	0.4	@ICP-D01			
195	1288		5	S95T000784		V-D-01			<	20.0500		401.0000	05/18/95	13:12	bjg	0.05	@ICP-D01			
196	1288		5	S95T000784		ZN-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
197	1288		5	S95T000784		ZR-D-01			<	4.0100		401.0000	05/18/95	13:12	bjg	0.01	@ICP-D01			
198	1288		6	S95T000784	DUP	AG-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
199	1288		6	S95T000784	DUP	AL-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
200	1288		6	S95T000784	DUP	AS-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
201	1288		6	S95T000784	DUP	B-D-01		30.9821		32.8096		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
202	1288		6	S95T000784	DUP	BA-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
203	1288		6	S95T000784	DUP	BE-D-01		<2.0050		<2.0050		401.0000	05/18/95	13:15	bjg	0.005	@ICP-D01			
204	1288		6	S95T000784	DUP	BI-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
205	1288		6	S95T000784	DUP	CA-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
206	1288		6	S95T000784	DUP	CD-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
207	1288		6	S95T000784	DUP	CE-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
208	1288		6	S95T000784	DUP	CO-D-01		<8.0200		<8.0200		401.0000	05/18/95	13:15	bjg	0.02	@ICP-D01			
209	1288		6	S95T000784	DUP	CR-D-01		109.6037		107.7226		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
210	1288		6	S95T000784	DUP	CU-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
211	1288		6	S95T000784	DUP	FE-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
212	1288		6	S95T000784	DUP	K-D-01		184.9711		273.1457		401.0000	05/18/95	13:15	bjg	0.3	@ICP-D01			
213	1288		6	S95T000784	DUP	LA-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
214	1288		6	S95T000784	DUP	LI-D-01		7.7347		7.5983		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
215	1288		6	S95T000784	DUP	MG-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
216	1288		6	S95T000784	DUP	MN-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
217	1288		6	S95T000784	DUP	MO-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
218	1288		6	S95T000784	DUP	NA-D-01		148760.5781		148458.0938		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
219	1288		6	S95T000784	DUP	ND-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
220	1288		6	S95T000784	DUP	NI-D-01		<8.0200		<8.0200		401.0000	05/18/95	13:15	bjg	0.02	@ICP-D01			
221	1288		6	S95T000784	DUP	P-D-01		7731.1113		7823.9160		401.0000	05/18/95	13:15	bjg	0.2	@ICP-D01			
222	1288		6	S95T000784	DUP	PB-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
223	1288		6	S95T000784	DUP	S-D-01		10006.5566		9919.0029		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
224	1288		6	S95T000784	DUP	SB-D-01		<80.2000		<80.2000		401.0000	05/18/95	13:15	bjg	0.2	@ICP-D01			
225	1288		6	S95T000784	DUP	SE-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
226	1288		6	S95T000784	DUP	SI-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
227	1288		6	S95T000784	DUP	SM-D-01		<40.1000		<40.1000		401.0000	05/18/95	13:15	bjg	0.1	@ICP-D01			
228	1288		6	S95T000784	DUP	SR-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
229	1288		6	S95T000784	DUP	TI-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
230	1288		6	S95T000784	DUP	TL-D-01		<80.2000		<80.2000		401.0000	05/18/95	13:15	bjg	0.2	@ICP-D01			
231	1288		6	S95T000784	DUP	U-D-01		234.2269		237.4975		401.0000	05/18/95	13:15	bjg	0.4	@ICP-D01			
232	1288		6	S95T000784	DUP	V-D-01		<20.0500		<20.0500		401.0000	05/18/95	13:15	bjg	0.05	@ICP-D01			
233	1288		6	S95T000784	DUP	ZN-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
234	1288		6	S95T000784	DUP	ZR-D-01		<4.0100		<4.0100		401.0000	05/18/95	13:15	bjg	0.01	@ICP-D01			
235	1288		7	S95T000784_A		AG-D-01		401		340.0031		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
236	1288		7	S95T000784_A		AL-D-01		401		399.1755		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
237	1288		7	S95T000784_A		AS-D-01		401		411.9653		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
238	1288		7	S95T000784_A		B-D-01		400.30		431.2855		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
239	1288		7	S95T000784_A		BA-D-01		401		363.5693		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
240	1288		7	S95T000784_A		BE-D-01		401		408.3470		401.0000	05/18/95	13:19	bjg	0.005	@ICP-D01			
241	1288		7	S95T000784_A		BI-D-01		401		417.5201		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
242	1288		7	S95T000784_A		CA-D-01		401		394.8082		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
243	1288		7	S95T000784_A		CD-D-01		401		399.1514		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
244	1288		7	S95T000784_A		CE-D-01		401		403.2801		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			

477

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
346	1288		7	S9ST000784_A		CO-D-01		401		405.8478		401.0000	05/18/95	13:19	bjg	0.02	@ICP-D01			
346	1288		7	S9ST000784_A		CR-D-01		406		515.5759		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
347	1288		7	S9ST000784_A		CU-D-01		401		403.7586		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
348	1288		7	S9ST000784_A		FE-D-01		401		409.6662		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
349	1288		7	S9ST000784_A		K-D-01		451		536.3940		401.0000	05/18/95	13:19	bjg	0.3	@ICP-D01			
350	1288		7	S9ST000784_A		LA-D-01		401		402.2433		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
351	1288		7	S9ST000784_A		LI-D-01		403		410.7355		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
352	1288		7	S9ST000784_A		MG-D-01		401		382.8555		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
353	1288		7	S9ST000784_A		MN-D-01		401		397.6626		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
354	1288		7	S9ST000784_A		MO-D-01		401		426.7982		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
355	1288		7	S9ST000784_A		NA-D-01		0		151353.2188		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
356	1288		7	S9ST000784_A		ND-D-01		401		413.4247		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
357	1288		7	S9ST000784_A		NI-D-01		401		397.6672		401.0000	05/18/95	13:19	bjg	0.02	@ICP-D01			
358	1288		7	S9ST000784_A		P-D-01		0		8179.1821		401.0000	05/18/95	13:19	bjg	0.2	@ICP-D01			
359	1288		7	S9ST000784_A		PB-D-01		401		399.5852		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
360	1288		7	S9ST000784_A		S-D-01		436		10442.3428		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
361	1288		7	S9ST000784_A		SB-D-01		401		378.4480		401.0000	05/18/95	13:19	bjg	0.2	@ICP-D01			
362	1288		7	S9ST000784_A		SE-D-01		401		396.0108		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
363	1288		7	S9ST000784_A		SI-D-01		401		386.4495		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
364	1288		7	S9ST000784_A		SM-D-01		401		400.3750		401.0000	05/18/95	13:19	bjg	0.1	@ICP-D01			
365	1288		7	S9ST000784_A		SR-D-01		401		395.7746		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
366	1288		7	S9ST000784_A		TI-D-01		401		393.3387		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
367	1288		7	S9ST000784_A		TL-D-01		401		385.3990		401.0000	05/18/95	13:19	bjg	0.2	@ICP-D01			
368	1288		7	S9ST000784_A		U-D-01		816		1050.3685		401.0000	05/18/95	13:19	bjg	0.4	@ICP-D01			
369	1288		7	S9ST000784_A		V-D-01		401		401.3619		401.0000	05/18/95	13:19	bjg	0.05	@ICP-D01			
370	1288		7	S9ST000784_A		ZN-D-01		401		395.1001		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
371	1288		7	S9ST000784_A		ZR-D-01		401		396.4837		401.0000	05/18/95	13:19	bjg	0.01	@ICP-D01			
372	1288		8		CCV	AG				5.1130		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
373	1288		8		CCV	AL				5.1398		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
374	1288		8		CCV	AS				5.3280		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
375	1288		8		CCV	B				5.1049		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
376	1288		8		CCV	BA				5.1177		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
377	1288		8		CCV	BE				5.3847		1.0000	05/18/95	13:47	bjg	0.005	@ICP-QC			
378	1288		8		CCV	BI				5.2957		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
379	1288		8		CCV	CA				5.2918		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
380	1288		8		CCV	CD				5.3157		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
381	1288		8		CCV	CE				5.2004		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
382	1288		8		CCV	CO				5.3245		1.0000	05/18/95	13:47	bjg	0.02	@ICP-QC			
383	1288		8		CCV	CR				5.3133		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
384	1288		8		CCV	CU				5.1795		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
385	1288		8		CCV	EU				0.0110		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
386	1288		8		CCV	FE				5.2824		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
387	1288		8		CCV	K				4.9181		1.0000	05/18/95	13:47	bjg	0.3	@ICP-QC			
388	1288		8		CCV	LA				5.1934		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
389	1288		8		CCV	LI				5.0862		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
390	1288		8		CCV	MG				5.1311		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
391	1288		8		CCV	MN				5.1982		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
392	1288		8		CCV	MO				5.2363		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
393	1288		8		CCV	NA				5.0397		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
394	1288		8		CCV	ND				5.2993		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
395	1288		8		CCV	NI				5.2419		1.0000	05/18/95	13:47	bjg	0.02	@ICP-QC			
396	1288		8		CCV	P				5.2475		1.0000	05/18/95	13:47	bjg	0.2	@ICP-QC			
397	1288		8		CCV	PB				5.2927		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
398	1288		8		CCV	S				5.2224		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
399	1288		8		CCV	SB				4.9643		1.0000	05/18/95	13:47	bjg	0.2	@ICP-QC			
400	1288		8		CCV	SE				5.1833		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
401	1288		8		CCV	SI				4.9355		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
402	1288		8		CCV	SM				5.2023		1.0000	05/18/95	13:47	bjg	0.1	@ICP-QC			
403	1288		8		CCV	SR				5.0909		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
404	1288		8		CCV	TH				-0.0106		1.0000	05/18/95	13:47	bjg	0	@ICP-QC			
405	1288		8		CCV	TI				5.0396		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
406	1288		8		CCV	TL				5.0803		1.0000	05/18/95	13:47	bjg	0.2	@ICP-QC			
407	1288		8		CCV	U				10.2289		1.0000	05/18/95	13:47	bjg	0.4	@ICP-QC			
408	1288		8		CCV	V				5.1563		1.0000	05/18/95	13:47	bjg	0.05	@ICP-QC			
409	1288		8		CCV	Y				0.0127		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
410	1288		8		CCV	ZN				5.3234		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
411	1288		8		CCV	ZR				5.1438		1.0000	05/18/95	13:47	bjg	0.01	@ICP-QC			
412	1288		9		CCB	AG				-0.0037		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
413	1288		9		CCB	AL				0.0010		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
414	1288		9		CCB	AS				0.0030		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
415	1288		9		CCB	B				0.0045		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
416	1288		9		CCB	BA				0.0000		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
417	1288		9		CCB	BE				0.0000		1.0000	05/18/95	13:51	bjg	0.005	@ICP-QC			
418	1288		9		CCB	BI				0.0272		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
419	1288		9		CCB	CA				-0.0002		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
420	1288		9		CCB	CD				-0.0013		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
421	1288		9		CCB	CE				-0.0044		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
422	1288		9		CCB	CO				-0.0003		1.0000	05/18/95	13:51	bjg	0.02	@ICP-QC			
423	1288		9		CCB	CR				-0.0003		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
424	1288		9		CCB	CU				0.0000		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
425	1288		9		CCB	EU				0.0001		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
426	1288		9		CCB	FE				0.0007		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
427	1288		9		CCB	K				-0.1288		1.0000	05/18/95	13:51	bjg	0.3	@ICP-QC			
428	1288		9		CCB	LA				-0.0002		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
429	1288		9		CCB	LI				0.0002		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
430	1288		9		CCB	MG				0.0002		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
431	1288		9		CCB	MN				0.0001		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
432	1288		9		CCB	MO				0.0019		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
433	1288		9		CCB	NA				0.0003		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
434	1288		9		CCB	ND				-0.0005		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
435	1288		9		CCB	NI				-0.0076		1.0000	05/18/95	13:51	bjg	0.02	@ICP-QC			
436	1288		9		CCB	P				0.0069		1.0000	05/18/95	13:51	bjg	0.2	@ICP-QC			
437	1288		9		CCB	PB				-0.0022		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
438	1288		9		CCB	S				0.0058		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
439	1288		9		CCB	SB				0.0009		1.0000	05/18/95	13:51	bjg	0.2	@ICP-QC			
440	1288		9		CCB	SE				0.0138		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
441	1288		9		CCB	SI				0.0025		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
442	1288		9		CCB	SM				0.0001		1.0000	05/18/95	13:51	bjg	0.1	@ICP-QC			
443	1288		9		CCB	SR				0.0001		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
444	1288		9		CCB	TH				0.0020		1.0000	05/18/95	13:51	bjg	0	@ICP-QC			
445	1288		9		CCB	TI				-0.0002		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
446	1288		9		CCB	TL				-0.0255		1.0000	05/18/95	13:51	bjg	0.2	@ICP-QC			
447	1288		9		CCB	U				-0.0068		1.0000	05/18/95	13:51	bjg	0.4	@ICP-QC			
448	1288		9		CCB	V				0.0000		1.0000	05/18/95	13:51	bjg	0.05	@ICP-QC			
449	1288		9		CCB	Y				-0.0001		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
450	1288		9		CCB	ZN				0.0003		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
451	1288		9		CCB	ZR				-0.0001		1.0000	05/18/95	13:51	bjg	0.01	@ICP-QC			
452	1288		10	S9ST000854		AG-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
453	1288		10	S9ST000854		AL-D-01			<	5.0500		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
454	1288		10	S9ST000854		AS-D-01			<	5.0500		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
455	1288		10	S9ST000854		B-D-01				11.7897		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
456	1288		10	S9ST000854		BA-D-01			<	5.0500		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
457	1288		10	S9ST000854		BE-D-01			<	0.5050		101.0000	05/18/95	13:59	bjg	0.005	@ICP-D01			
458	1288		10	S9ST000854		BI-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
459	1288		10	S9ST000854		CA-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
460	1288		10	S9ST000854		CD-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
461	1288		10	S9ST000854		CE-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
462	1288		10	S9ST000854		CO-D-01		478	<	2.0200		101.0000	05/18/95	13:59	bjg	0.02	@ICP-D01			
463	1288		10	S9ST000854		CR-D-01			<	18.4020		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
464	1288		10	S9ST000854		CU-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
465	1288		10	S9ST000854		FE-D-01			<	5.0500		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
466	1288		10	S9ST000854		K-D-01			<	30.3000		101.0000	05/18/95	13:59	bjg	0.3	@ICP-D01			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
367	1288		10	S95T000854		LA-D-01			<	5.0500		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
368	1288		10	S95T000854		LI-D-01				1549.6686		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
369	1288		10	S95T000854		MG-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
370	1288		10	S95T000854		MN-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
371	1288		10	S95T000854		MO-D-01			<	5.0500		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
372	1288		10	S95T000854		NA-D-01				27333.7168		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
373	1288		10	S95T000854		ND-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
374	1288		10	S95T000854		NI-D-01				3.9780		101.0000	05/18/95	13:59	bjg	0.02	@ICP-D01			
375	1288		10	S95T000854		P-D-01				859.4656		101.0000	05/18/95	13:59	bjg	0.2	@ICP-D01			
376	1288		10	S95T000854		PB-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
377	1288		10	S95T000854		S-D-01				1665.2662		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
378	1288		10	S95T000854		SB-D-01			<	20.2000		101.0000	05/18/95	13:59	bjg	0.2	@ICP-D01			
379	1288		10	S95T000854		SE-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
380	1288		10	S95T000854		SI-D-01				9.9741		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
381	1288		10	S95T000854		SM-D-01			<	10.1000		101.0000	05/18/95	13:59	bjg	0.1	@ICP-D01			
382	1288		10	S95T000854		SR-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
383	1288		10	S95T000854		TI-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
384	1288		10	S95T000854		TL-D-01			<	20.2000		101.0000	05/18/95	13:59	bjg	0.2	@ICP-D01			
385	1288		10	S95T000854		U-D-01				75.1925		101.0000	05/18/95	13:59	bjg	0.4	@ICP-D01			
386	1288		10	S95T000854		V-D-01			<	5.0500		101.0000	05/18/95	13:59	bjg	0.05	@ICP-D01			
387	1288		10	S95T000854		ZN-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
388	1288		10	S95T000854		ZR-D-01			<	1.0100		101.0000	05/18/95	13:59	bjg	0.01	@ICP-D01			
389	1288		11	S95T000854	DUP	AG-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
390	1288		11	S95T000854	DUP	AL-D-01		<5.0500		<5.0500		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
391	1288		11	S95T000854	DUP	AS-D-01		<5.0500		<5.0500		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
392	1288		11	S95T000854	DUP	B-D-01		11.7997		11.2122		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
393	1288		11	S95T000854	DUP	BA-D-01		<5.0500		<5.0500		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
394	1288		11	S95T000854	DUP	BE-D-01		<0.5050		<0.5050		101.0000	05/18/95	14:02	bjg	0.005	@ICP-D01			
395	1288		11	S95T000854	DUP	BI-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
396	1288		11	S95T000854	DUP	CA-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
397	1288		11	S95T000854	DUP	CD-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
398	1288		11	S95T000854	DUP	CE-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
399	1288		11	S95T000854	DUP	CO-D-01		<2.0200		<2.0200		101.0000	05/18/95	14:02	bjg	0.02	@ICP-D01			
400	1288		11	S95T000854	DUP	CR-D-01		18.4020		16.5983		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
401	1288		11	S95T000854	DUP	CU-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
402	1288		11	S95T000854	DUP	FE-D-01		<5.0500		<5.0500		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
403	1288		11	S95T000854	DUP	K-D-01		<30.3000		<30.3000		101.0000	05/18/95	14:02	bjg	0.3	@ICP-D01			
404	1288		11	S95T000854	DUP	LA-D-01		<5.0500		<5.0500		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
405	1288		11	S95T000854	DUP	LI-D-01		1549.8996		1556.8063		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
406	1288		11	S95T000854	DUP	MG-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
407	1288		11	S95T000854	DUP	MN-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
408	1288		11	S95T000854	DUP	MO-D-01		<5.0500		<5.0500		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
409	1288		11	S95T000854	DUP	NA-D-01		27333.7168		27433.1738		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
410	1288		11	S95T000854	DUP	ND-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
411	1288		11	S95T000854	DUP	NI-D-01		3.9780		4.1667		101.0000	05/18/95	14:02	bjg	0.02	@ICP-D01			
412	1288		11	S95T000854	DUP	P-D-01		859.4656		859.8273		101.0000	05/18/95	14:02	bjg	0.2	@ICP-D01			
413	1288		11	S95T000854	DUP	PB-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
414	1288		11	S95T000854	DUP	S-D-01		1665.2662		1661.1128		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
415	1288		11	S95T000854	DUP	SB-D-01		<20.2000		<20.2000		101.0000	05/18/95	14:02	bjg	0.2	@ICP-D01			
416	1288		11	S95T000854	DUP	SE-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
417	1288		11	S95T000854	DUP	SI-D-01		9.9741		10.0486		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
418	1288		11	S95T000854	DUP	SM-D-01		<10.1000		<10.1000		101.0000	05/18/95	14:02	bjg	0.1	@ICP-D01			
419	1288		11	S95T000854	DUP	SR-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
420	1288		11	S95T000854	DUP	TI-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
421	1288		11	S95T000854	DUP	TL-D-01		<20.2000		<20.2000		101.0000	05/18/95	14:02	bjg	0.2	@ICP-D01			
422	1288		11	S95T000854	DUP	U-D-01		75.1925		75.3969		101.0000	05/18/95	14:02	bjg	0.4	@ICP-D01			
423	1288		11	S95T000854	DUP	V-D-01		<5.0500		<5.0500		101.0000	05/18/95	14:02	bjg	0.05	@ICP-D01			
424	1288		11	S95T000854	DUP	ZN-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
425	1288		11	S95T000854	DUP	ZR-D-01		<1.0100		<1.0100		101.0000	05/18/95	14:02	bjg	0.01	@ICP-D01			
426	1288		12	S95T00054_A		AG-D-01		101		77.9011		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
427	1288		12	S95T00054_A		AL-D-01		101		97.9430		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
428	1288		12	S95T00054_A		AS-D-01		101		5.0500		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
429	1288		12	S95T00054_A		B-D-01		98.4		110.2140		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
430	1288		12	S95T00054_A		BA-D-01		101		96.2921		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
431	1288		12	S95T00054_A		BE-D-01		101		101.5022		101.0000	05/18/95	14:06	bjg	0.005	@ICP-D01			
432	1288		12	S95T00054_A		BI-D-01		101		104.1353		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
433	1288		12	S95T00054_A		CA-D-01		101		102.3121		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
434	1288		12	S95T00054_A		CD-D-01		101		99.4819		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
435	1288		12	S95T00054_A		CE-D-01		101		103.2082		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
436	1288		12	S95T00054_A		CO-D-01		101		102.1882		101.0000	05/18/95	14:06	bjg	0.02	@ICP-D01			
437	1288		12	S95T00054_A		CR-D-01		103		119.2928		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
438	1288		12	S95T00054_A		CU-D-01		101		98.5213		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
439	1288		12	S95T00054_A		FE-D-01		101		102.5484		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
440	1288		12	S95T00054_A		K-D-01		85.4		115.5649		101.0000	05/18/95	14:06	bjg	0.3	@ICP-D01			
441	1288		12	S95T00054_A		LA-D-01		101		99.2741		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
442	1288		12	S95T00054_A		LI-D-01		137		1687.5895		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
443	1288		12	S95T00054_A		MG-D-01		101		91.9657		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
444	1288		12	S95T00054_A		MN-D-01		101		97.4051		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
445	1288		12	S95T00054_A		MO-D-01		101		103.0048		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
446	1288		12	S95T00054_A		NA-D-01		0		28124.8250		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
447	1288		12	S95T00054_A		ND-D-01		101		101.7852		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
448	1288		12	S95T00054_A		NI-D-01		99.3		103.3032		101.0000	05/18/95	14:06	bjg	0.02	@ICP-D01			
449	1288		12	S95T00054_A		P-D-01		138		997.5681		101.0000	05/18/95	14:06	bjg	0.2	@ICP-D01			
450	1288		12	S95T00054_A		PB-D-01		101		105.4867		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
451	1288		12	S95T00054_A		S-D-01		155		1820.6400		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
452	1288		12	S95T00054_A		SB-D-01		101		93.2200		101.0000	05/18/95	14:06	bjg	0.2	@ICP-D01			
453	1288		12	S95T00054_A		SE-D-01		101		106.4209		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
454	1288		12	S95T00054_A		SI-D-01		96.6		106.6393		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
455	1288		12	S95T00054_A		SM-D-01		101		99.0111		101.0000	05/18/95	14:06	bjg	0.1	@ICP-D01			
456	1288		12	S95T00054_A		SR-D-01		101		97.4846		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
457	1288		12	S95T00054_A		TI-D-01		101		96.6078		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
458	1288		12	S95T00054_A		TL-D-01		101		83.8889		101.0000	05/18/95	14:06	bjg	0.2	@ICP-D01			
459	1288		12	S95T00054_A		U-D-01		198		273.5864		101.0000	05/18/95	14:06	bjg	0.4	@ICP-D01			
460	1288		12	S95T00054_A		V-D-01		101		99.4163		101.0000	05/18/95	14:06	bjg	0.05	@ICP-D01			
461	1288		12	S95T00054_A		ZN-D-01		101		97.5926		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
462	1288		12	S95T00054_A		ZR-D-01		101		98.0800		101.0000	05/18/95	14:06	bjg	0.01	@ICP-D01			
463	1288		13		CCV	AG				5.0689		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
464	1288		13		CCV	AL				5.0755		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
465	1288		13		CCV	AS				5.2508		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
466	1288		13		CCV	B				5.0396		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
467	1288		13		CCV	BA				5.0295		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
468	1288		13		CCV	BE				5.3686		1.0000	05/18/95	14:12	bjg	0.005	@ICP-QC			
469	1288		13		CCV	BI				5.2439		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
470	1288		13		CCV	CA				5.3536		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
471	1288		13		CCV	CD				5.3441		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
472	1288		13		CCV	CE				5.1229		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
473	1288		13		CCV	CO				5.3476		1.0000	05/18/95	14:12	bjg	0.02	@ICP-QC			
474	1288		13		CCV	CR				5.3415		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
475	1288		13		CCV	CU				5.0933		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
476	1288		13		CCV	EU				0.0114		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
477	1288		13		CCV	FE				5.2884		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
478	1288		13		CCV	K				4.8224		1.0000	05/18/95	14:12	bjg	0.3	@ICP-QC			
479	1288		13		CCV	LA				5.1190		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
480	1288		13		CCV	LI				4.9582		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
481	1288		13		CCV	MG				5.0892		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
482	1288		13		CCV	MN				5.1867		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
483	1288		13		CCV	MO				5.2323		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
484	1288		13		CCV	NA				4.9449		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
485	1288		13		CCV	ND				5.2192		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
486	1288		13		CCV	NI				5.2951		1.0000	05/18/95	14:12	bjg	0.02	@ICP-QC			
487	1288		13		CCV	P				5.2431		1.0000	05/18/95	14:12	bjg	0.2	@ICP-QC			
488	1288		13		CCV	PB				5.3509		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
488	1288	13			CCV	S				5.1977		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
489	1288	13			CCV	SB				4.9333		1.0000	05/18/95	14:12	bjg	0.2	@ICP-QC			
491	1288	13			CCV	SE				5.2154		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
492	1288	13			CCV	SI				4.8314		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
493	1288	13			CCV	SM				5.1095		1.0000	05/18/95	14:12	bjg	0.1	@ICP-QC			
494	1288	13			CCV	SR				5.0281		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
486	1288	13			CCV	TH				-0.0133		1.0000	05/18/95	14:12	bjg	0	@ICP-QC			
496	1288	13			CCV	TI				4.9972		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
497	1288	13			CCV	TL				5.1471		1.0000	05/18/95	14:12	bjg	0.2	@ICP-QC			
498	1288	13			CCV	U				10.0454		1.0000	05/18/95	14:12	bjg	0.4	@ICP-QC			
499	1288	13			CCV	V				5.1557		1.0000	05/18/95	14:12	bjg	0.05	@ICP-QC			
500	1288	13			CCV	Y				5.0133		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
501	1288	13			CCV	ZN				5.3678		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
502	1288	13			CCV	ZR				5.1099		1.0000	05/18/95	14:12	bjg	0.01	@ICP-QC			
503	1288	14			CCB	AG				0.0186		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
504	1288	14			CCB	AL				-0.0043		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
505	1288	14			CCB	AS				-0.0108		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
506	1288	14			CCB	B				0.0075		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
507	1288	14			CCB	BA				0.0002		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
508	1288	14			CCB	BE				-0.0001		1.0000	05/18/95	14:16	bjg	0.005	@ICP-QC			
509	1288	14			CCB	BI				0.0549		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
510	1288	14			CCB	CA				0.0086		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
511	1288	14			CCB	CD				-0.0014		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
512	1288	14			CCB	CE				-0.0005		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
513	1288	14			CCB	CO				-0.0008		1.0000	05/18/95	14:16	bjg	0.02	@ICP-QC			
514	1288	14			CCB	CR				0.0009		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
515	1288	14			CCB	CU				-0.0002		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
516	1288	14			CCB	EU				0.0012		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
517	1288	14			CCB	FE				0.0022		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
518	1288	14			CCB	K				0.0050		1.0000	05/18/95	14:16	bjg	0.3	@ICP-QC			
519	1288	14			CCB	LA				0.0004		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
520	1288	14			CCB	LI				0.0013		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
521	1288	14			CCB	MG				0.0072		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
522	1288	14			CCB	MN				0.0003		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
523	1288	14			CCB	MO				0.0010		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
524	1288	14			CCB	NA				0.0081		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
525	1288	14			CCB	ND				0.0036		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
526	1288	14			CCB	NI				-0.0042		1.0000	05/18/95	14:16	bjg	0.02	@ICP-QC			
527	1288	14			CCB	P				0.0134		1.0000	05/18/95	14:16	bjg	0.2	@ICP-QC			
528	1288	14			CCB	PB				0.0163		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
529	1288	14			CCB	S				0.0063		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
530	1288	14			CCB	SB				-0.0029		1.0000	05/18/95	14:16	bjg	0.2	@ICP-QC			
531	1288	14			CCB	SE				0.0248		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
532	1288	14			CCB	SI				0.0063		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
533	1288	14			CCB	SM				0.0136		1.0000	05/18/95	14:16	bjg	0.1	@ICP-QC			
534	1288	14			CCB	SR				0.0003		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
535	1288	14			CCB	TH				-0.0012		1.0000	05/18/95	14:16	bjg	0	@ICP-QC			
536	1288	14			CCB	TI				0.0002		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
537	1288	14			CCB	TL				-0.0175		1.0000	05/18/95	14:16	bjg	0.2	@ICP-QC			
538	1288	14			CCB	U				0.0421		1.0000	05/18/95	14:16	bjg	0.4	@ICP-QC			
539	1288	14			CCB	V				0.0023		1.0000	05/18/95	14:16	bjg	0.05	@ICP-QC			
540	1288	14			CCB	Y				0.0006		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
541	1288	14			CCB	ZN				-0.0006		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
542	1288	14			CCB	ZR				0.0004		1.0000	05/18/95	14:16	bjg	0.01	@ICP-QC			
543	1288	15	S95T0000857			AG-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
544	1288	15	S95T0000857			AL-D-01			<	0.5000		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
545	1288	15	S95T0000857			AS-D-01			<	0.5000		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
546	1288	15	S95T0000857			B-D-01				2.4335		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
547	1288	15	S95T0000857			BA-D-01			<	0.5000		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
548	1288	15	S95T0000857			BE-D-01			<	0.0500		10.0000	05/18/95	14:19	bjg	0.005	@ICP-D01			
549	1288	15	S95T0000857			BI-D-01			<	1.0000		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
550	1288	15	S95T0000857			CA-D-01				1.1655		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
551	1288	15	S95T0000857			CD-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
552	1288	15	S95T0000857			CE-D-01			<	1.0000		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
553	1288	15	S95T0000857			CO-D-01			<	0.2000		10.0000	05/18/95	14:19	bjg	0.02	@ICP-D01			
554	1288	15	S95T0000857			CR-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
555	1288	15	S95T0000857			CU-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
556	1288	15	S95T0000857			FE-D-01			<	0.5000		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
557	1288	15	S95T0000857			K-D-01			<	3.0000		10.0000	05/18/95	14:19	bjg	0.3	@ICP-D01			
558	1288	15	S95T0000857			LA-D-01			<	0.5000		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
559	1288	15	S95T0000857			LI-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
560	1288	15	S95T0000857			MG-D-01			<	1.0000		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
561	1288	15	S95T0000857			MN-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
562	1288	15	S95T0000857			MO-D-01			<	0.5000		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
563	1288	15	S95T0000857			NA-D-01				6.7583		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
564	1288	15	S95T0000857			ND-D-01			<	1.0000		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
565	1288	15	S95T0000857			NI-D-01			<	0.2000		10.0000	05/18/95	14:19	bjg	0.02	@ICP-D01			
566	1288	15	S95T0000857			P-D-01			<	2.0000		10.0000	05/18/95	14:19	bjg	0.2	@ICP-D01			
567	1288	15	S95T0000857			PB-D-01			<	1.0000		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
568	1288	15	S95T0000857			S-D-01				2.2196		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
569	1288	15	S95T0000857			SB-D-01			<	2.0000		10.0000	05/18/95	14:19	bjg	0.2	@ICP-D01			
570	1288	15	S95T0000857			SE-D-01			<	1.0000		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
571	1288	15	S95T0000857			SI-D-01				5.8864		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
572	1288	15	S95T0000857			SM-D-01			<	1.0000		10.0000	05/18/95	14:19	bjg	0.1	@ICP-D01			
573	1288	15	S95T0000857			SR-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
574	1288	15	S95T0000857			TI-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
575	1288	15	S95T0000857			TL-D-01			<	2.0000		10.0000	05/18/95	14:19	bjg	0.2	@ICP-D01			
576	1288	15	S95T0000857			U-D-01			<	4.0000		10.0000	05/18/95	14:19	bjg	0.4	@ICP-D01			
577	1288	15	S95T0000857			V-D-01			<	0.5000		10.0000	05/18/95	14:19	bjg	0.05	@ICP-D01			
578	1288	15	S95T0000857			ZN-D-01				0.2868		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
579	1288	15	S95T0000857			ZR-D-01			<	0.1000		10.0000	05/18/95	14:19	bjg	0.01	@ICP-D01			
580	1288	16	S95T0000857		DUP	AG-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
581	1288	16	S95T0000857		DUP	AL-D-01		<0.5000		<0.5000		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
582	1288	16	S95T0000857		DUP	AS-D-01		<0.5000		<0.5000		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
583	1288	16	S95T0000857		DUP	B-D-01		2.4335		2.4636		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
584	1288	16	S95T0000857		DUP	BA-D-01		<0.5000		<0.5000		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
585	1288	16	S95T0000857		DUP	BE-D-01		<0.0500		<0.0500		10.0000	05/18/95	14:23	bjg	0.005	@ICP-D01			
586	1288	16	S95T0000857		DUP	BI-D-01		<1.0000		<1.0000		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
587	1288	16	S95T0000857		DUP	CA-D-01		1.1655		1.1553		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
588	1288	16	S95T0000857		DUP	CD-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
589	1288	16	S95T0000857		DUP	CE-D-01		<1.0000		<1.0000		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
590	1288	16	S95T0000857		DUP	CO-D-01		<0.2000		<0.2000		10.0000	05/18/95	14:23	bjg	0.02	@ICP-D01			
591	1288	16	S95T0000857		DUP	CR-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
592	1288	16	S95T0000857		DUP	CU-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
593	1288	16	S95T0000857		DUP	FE-D-01		<0.5000		<0.5000		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
594	1288	16	S95T0000857		DUP	K-D-01		<3.0000		<3.0000		10.0000	05/18/95	14:23	bjg	0.3	@ICP-D01			
595	1288	16	S95T0000857		DUP	LA-D-01		<0.5000		<0.5000		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
596	1288	16	S95T0000857		DUP	LI-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
597	1288	16	S95T0000857		DUP	MG-D-01		<1.0000		<1.0000		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
598	1288	16	S95T0000857		DUP	MN-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
599	1288	16	S95T0000857		DUP	MO-D-01		<0.5000		<0.5000		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
600	1288	16	S95T0000857		DUP	NA-D-01		6.7583		6.8022		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
601	1288	16	S95T0000857		DUP	ND-D-01		<1.0000		<1.0000		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
602	1288	16	S95T0000857		DUP	NI-D-01		<0.2000		<0.2000		10.0000	05/18/95	14:23	bjg	0.02	@ICP-D01			
603	1288	16	S95T0000857		DUP	P-D-01		<2.0000		<2.0000		10.0000	05/18/95	14:23	bjg	0.2	@ICP-D01			
604	1288	16	S95T0000857		DUP	PB-D-01		<1.0000		<1.0000		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
605	1288	16	S95T0000857		DUP	S-D-01		2.2196		2.0458		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
606	1288	16	S95T0000857		DUP	SB-D-01		<2.0000		<2.0000		10.0000	05/18/95	14:23	bjg	0.2	@ICP-D01			
607	1288	16	S95T0000857		DUP	SE-D-01		<1.0000		<1.0000		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
608	1288	16	S95T0000857		DUP	SI-D-01		5.8664		5.9467		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
609	1288	16	S95T0000857		DUP	SM-D-01		<1.0000		<1.0000		10.0000	05/18/95	14:23	bjg	0.1	@ICP-D01			
610	1288	16	S95T0000857		DUP	SR-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
611	1288		16 S95T000957		DUP	TI-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
612	1288		16 S95T000857		DUP	TL-D-01		<2.0000		<2.0000		10.0000	05/18/95	14:23	bjg	0.2	@ICP-D01			
613	1288		16 S95T000857		DUP	U-D-01		<4.0000		<4.0000		10.0000	05/18/95	14:23	bjg	0.4	@ICP-D01			
614	1288		16 S95T000857		DUP	V-D-01		<0.5000		<0.5000		10.0000	05/18/95	14:23	bjg	0.05	@ICP-D01			
615	1288		16 S95T000857		DUP	ZN-D-01		0.2868		0.3187		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
616	1288		16 S95T000857		DUP	ZR-D-01		<0.1000		<0.1000		10.0000	05/18/95	14:23	bjg	0.01	@ICP-D01			
617	1288		17 S95T000857_A			AG-D-01		10		9.8640		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
618	1288		17 S95T000857_A			AL-D-01		10		10.0045		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
619	1288		17 S95T000857_A			AS-D-01		10		10.2903		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
620	1288		17 S95T000857_A			B-D-01		10.0		12.4357		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
621	1288		17 S95T000857_A			BA-D-01		10		9.9213		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
622	1288		17 S95T000857_A			BE-D-01		10		10.4001		10.0000	05/18/95	14:26	bjg	0.005	@ICP-D01			
623	1288		17 S95T000857_A			BI-D-01		10		10.4357		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
624	1288		17 S95T000857_A			CA-D-01		10		11.5288		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
625	1288		17 S95T000857_A			CD-D-01		10		10.3742		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
626	1288		17 S95T000857_A			CE-D-01		10		10.2805		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
627	1288		17 S95T000857_A			CO-D-01		10		10.5249		10.0000	05/18/95	14:26	bjg	0.02	@ICP-D01			
628	1288		17 S95T000857_A			CR-D-01		10		10.5174		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
629	1288		17 S95T000857_A			CU-D-01		10		10.1073		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
630	1288		17 S95T000857_A			FE-D-01		10		10.5411		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
631	1288		17 S95T000857_A			K-D-01		10		10.1617		10.0000	05/18/95	14:26	bjg	0.3	@ICP-D01			
632	1288		17 S95T000857_A			LA-D-01		10		10.2351		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
633	1288		17 S95T000857_A			LI-D-01		10		9.9810		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
634	1288		17 S95T000857_A			MG-D-01		10		10.0587		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
635	1288		17 S95T000857_A			MN-D-01		10		10.0234		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
636	1288		17 S95T000857_A			MO-D-01		10		10.2998		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
637	1288		17 S95T000857_A			NA-D-01		9.78		18.5357		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
638	1288		17 S95T000857_A			ND-D-01		10		10.4560		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
639	1288		17 S95T000857_A			NI-D-01		10		10.3261		10.0000	05/18/95	14:26	bjg	0.02	@ICP-D01			
640	1288		17 S95T000857_A			P-D-01		10		10.8874		10.0000	05/18/95	14:26	bjg	0.2	@ICP-D01			
641	1288		17 S95T000857_A			PB-D-01		10		10.4158		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
642	1288		17 S95T000857_A			S-D-01		9.41		11.6289		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
643	1288		17 S95T000857_A			SB-D-01		10		9.4280		10.0000	05/18/95	14:26	bjg	0.2	@ICP-D01			
644	1288		17 S95T000857_A			SE-D-01		10		10.1977		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
645	1288		17 S95T000857_A			SI-D-01		10		15.9784		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
646	1288		17 S95T000857_A			SM-D-01		10		10.2021		10.0000	05/18/95	14:26	bjg	0.1	@ICP-D01			
647	1288		17 S95T000857_A			SR-D-01		10		10.0156		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
648	1288		17 S95T000857_A			TI-D-01		10		9.8950		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
649	1288		17 S95T000857_A			TL-D-01		10		9.7103		10.0000	05/18/95	14:26	bjg	0.2	@ICP-D01			
650	1288		17 S95T000857_A			U-D-01		10		20.1928		10.0000	05/18/95	14:26	bjg	0.4	@ICP-D01			
651	1288		17 S95T000857_A			V-D-01		10		10.1325		10.0000	05/18/95	14:26	bjg	0.05	@ICP-D01			
652	1288		17 S95T000857_A			ZN-D-01		10.19		10.4779		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
653	1288		17 S95T000857_A			ZR-D-01		10		10.0097		10.0000	05/18/95	14:26	bjg	0.01	@ICP-D01			
654	1288		18		ICSA	AG				-0.0013		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
655	1288		18		ICSA	AL				245.8895		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
656	1288		18		ICSA	AS				-0.0048		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
657	1288		18		ICSA	B				0.0074		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
658	1288		18		ICSA	BA				0.0032		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
659	1288		18		ICSA	BE				0.0002		1.0000	05/18/95	14:30	bjg	0.005	@ICP-QC			
660	1288		18		ICSA	BI				0.0718		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
661	1288		18		ICSA	CA				257.8705		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
662	1288		18		ICSA	CD				-0.0011		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
663	1288		18		ICSA	CE				0.0010		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
664	1288		18		ICSA	CO				-0.0005		1.0000	05/18/95	14:30	bjg	0.02	@ICP-QC			
665	1288		18		ICSA	CR				-0.0065		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
666	1288		18		ICSA	CU				-0.0059		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
667	1288		18		ICSA	EU				0.0163		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
668	1288		18		ICSA	FE				95.3960		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
669	1288		18		ICSA	K				-0.0430		1.0000	05/18/95	14:30	bjg	0.3	@ICP-QC			
670	1288		18		ICSA	LA				-0.0043		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
671	1288		18		ICSA	LI				0.0030		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
672	1288		18		ICSA	MG				251.1631		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
673	1288		18		ICSA	MN				0.0011		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
674	1288		18		ICSA	MO				0.0162		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
675	1288		18		ICSA	NA				192.4980		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
676	1288		18		ICSA	ND				0.0157		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
677	1288		18		ICSA	NI				-0.0266		1.0000	05/18/95	14:30	bjg	0.02	@ICP-QC			
678	1288		18		ICSA	P				0.1561		1.0000	05/18/95	14:30	bjg	0.2	@ICP-QC			
679	1288		18		ICSA	PB				0.0557		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
680	1288		18		ICSA	S				-0.0004		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
681	1288		18		ICSA	SB				-0.0003		1.0000	05/18/95	14:30	bjg	0.2	@ICP-QC			
682	1288		18		ICSA	SE				0.1229		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
683	1288		18		ICSA	SI				0.0364		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
684	1288		18		ICSA	SM				-0.0018		1.0000	05/18/95	14:30	bjg	0.1	@ICP-QC			
685	1288		18		ICSA	SR				0.0008		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
686	1288		18		ICSA	TH				-0.0195		1.0000	05/18/95	14:30	bjg	0	@ICP-QC			
687	1288		18		ICSA	TI				0.0004		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
688	1288		18		ICSA	TL				0.0273		1.0000	05/18/95	14:30	bjg	0.2	@ICP-QC			
689	1288		18		ICSA	U				0.0476		1.0000	05/18/95	14:30	bjg	0.4	@ICP-QC			
690	1288		18		ICSA	V				0.0030		1.0000	05/18/95	14:30	bjg	0.05	@ICP-QC			
691	1288		18		ICSA	Y				0.0107		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
692	1288		18		ICSA	ZN				-0.0016		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
693	1288		18		ICSA	ZR				-0.0008		1.0000	05/18/95	14:30	bjg	0.01	@ICP-QC			
694	1288		19		ICSAB	AG				0.9652		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
695	1288		19		ICSAB	AL				246.4032		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
696	1288		19		ICSAB	AS				-0.0149		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
697	1288		19		ICSAB	B				0.0030		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
698	1288		19		ICSAB	BA				0.4855		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
699	1288		19		ICSAB	BE				0.4855		1.0000	05/18/95	14:33	bjg	0.005	@ICP-QC			
700	1288		19		ICSAB	BI				0.0747		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
701	1288		19		ICSAB	CA				254.9335		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
702	1288		19		ICSAB	CD				0.9636		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
703	1288		19		ICSAB	CE				-0.0006		1.0000	05/18/95	14:33	bjg	0	@ICP-QC			
704	1288		19		ICSAB	CO				0.4745		1.0000	05/18/95	14:33	bjg	0.02	@ICP-QC			
705	1288		19		ICSAB	CR				0.4756		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
706	1288		19		ICSAB	CU				0.4810		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
707	1288		19		ICSAB	EU				0.0212		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
708	1288		19		ICSAB	FE				94.1420		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
709	1288		19		ICSAB	K				-0.0885		1.0000	05/18/95	14:33	bjg	0.3	@ICP-QC			
710	1288		19		ICSAB	LA				-0.0049		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
711	1288		19		ICSAB	LI				0.9837		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
712	1288		19		ICSAB	MG				247.4831		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
713	1288		19		ICSAB	MN				0.4621		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
714	1288		19		ICSAB	MO				-0.0161		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
715	1288		19		ICSAB	NA				190.8032		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
716	1288		19		ICSAB	ND				0.0159		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
717	1288		19		ICSAB	NI				0.9173		1.0000	05/18/95	14:33	bjg	0.02	@ICP-QC			
718	1288		19		ICSAB	P				0.1689		1.0000	05/18/95	14:33	bjg	0.2	@ICP-QC			
719	1288		19		ICSAB	PB				1.0403		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
720	1288		19		ICSAB	S				0.0009		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
721	1288		19		ICSAB	SB				0.0038		1.0000	05/18/95	14:33	bjg	0.2	@ICP-QC			
722	1288		19		ICSAB	SE				0.1137		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
723	1288		19		ICSAB	SI				0.0336		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
724	1288		19		ICSAB	SM				-0.0053		1.0000	05/18/95	14:33	bjg	0.1	@ICP-QC			
725	1288		19		ICSAB	SR				0.0008		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
726	1288		19		ICSAB	TH				-0.0151		1.0000	05/18/95	14:33	bjg	0	@ICP-QC			
727	1288		19		ICSAB	TI				0.0004		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
728	1288		19		ICSAB	TL				0.0555		1.0000	05/18/95	14:33	bjg	0.2	@ICP-QC			
729	1288		19		ICSAB	U				0.0816		1.0000	05/18/95	14:33	bjg	0.4	@ICP-QC			
730	1288		19		ICSAB	V				0.4746		1.0000	05/18/95	14:33	bjg	0.05	@ICP-QC			
731	1288		19		ICSAB	Y				0.0106		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			
732	1288		19		ICSAB	ZN				0.9837		1.0000	05/18/95	14:33	bjg	0.01	@ICP-QC			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
733	1288	19			ICSAB	ZR				-0.0008		1.0000	05/18/95	14:33	big	0.01	@ICP-QC			
734	1288	20			CCV	AG				5.0684		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
735	1288	20			CCV	AL				5.1329		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
736	1288	20			CCV	AS				5.2840		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
737	1288	20			CCV	B				5.1159		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
738	1288	20			CCV	BA				5.0850		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
739	1288	20			CCV	BE				5.3614		1.0000	05/18/95	14:37	big	0.005	@ICP-QC			
740	1288	20			CCV	BI				5.2834		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
741	1288	20			CCV	CA				5.3443		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
742	1288	20			CCV	CD				5.3139		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
743	1288	20			CCV	CE				5.1860		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
744	1288	20			CCV	CO				5.3242		1.0000	05/18/95	14:37	big	0.02	@ICP-QC			
745	1288	20			CCV	CR				5.3205		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
746	1288	20			CCV	CU				5.1640		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
747	1288	20			CCV	EU				0.0114		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
748	1288	20			CCV	FE				5.2748		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
749	1288	20			CCV	K				4.8886		1.0000	05/18/95	14:37	big	0.3	@ICP-QC			
750	1288	20			CCV	LA				5.1739		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
751	1288	20			CCV	LI				5.1144		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
752	1288	20			CCV	MG				5.1290		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
753	1288	20			CCV	MN				5.1772		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
754	1288	20			CCV	MO				5.2154		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
755	1288	20			CCV	NA				5.0856		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
756	1288	20			CCV	ND				5.2942		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
757	1288	20			CCV	NI				5.2658		1.0000	05/18/95	14:37	big	0.02	@ICP-QC			
758	1288	20			CCV	P				5.3031		1.0000	05/18/95	14:37	big	0.2	@ICP-QC			
759	1288	20			CCV	PB				5.2951		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
760	1288	20			CCV	S				5.2616		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
761	1288	20			CCV	SB				4.9440		1.0000	05/18/95	14:37	big	0.2	@ICP-QC			
762	1288	20			CCV	SE				5.2544		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
763	1288	20			CCV	SI				4.8415		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
764	1288	20			CCV	SM				5.1818		1.0000	05/18/95	14:37	big	0.1	@ICP-QC			
765	1288	20			CCV	SR				5.0848		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
766	1288	20			CCV	TH				-0.0136		1.0000	05/18/95	14:37	big	0	@ICP-QC			
767	1288	20			CCV	TI				5.0294		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
768	1288	20			CCV	TL				5.1138		1.0000	05/18/95	14:37	big	0.2	@ICP-QC			
769	1288	20			CCV	U				10.1875		1.0000	05/18/95	14:37	big	0.4	@ICP-QC			
770	1288	20			CCV	V				5.1649		1.0000	05/18/95	14:37	big	0.05	@ICP-QC			
771	1288	20			CCV	Y				0.0131		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
772	1288	20			CCV	ZN				5.3378		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
773	1288	20			CCV	ZR				5.1320		1.0000	05/18/95	14:37	big	0.01	@ICP-QC			
774	1288	21			CCB	AG				0.0133		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
775	1288	21			CCB	AL				0.0012		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
776	1288	21			CCB	AS				-0.0052		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
777	1288	21			CCB	B				0.0080		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
778	1288	21			CCB	BA				0.0003		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
779	1288	21			CCB	BE				0.0001		1.0000	05/18/95	14:41	big	0.005	@ICP-QC			
780	1288	21			CCB	BI				0.0327		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
781	1288	21			CCB	CA				0.0046		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
782	1288	21			CCB	CD				-0.0001		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
783	1288	21			CCB	CE				-0.0020		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
784	1288	21			CCB	CO				-0.0014		1.0000	05/18/95	14:41	big	0.02	@ICP-QC			
785	1288	21			CCB	CR				-0.0006		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
786	1288	21			CCB	CU				-0.0004		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
787	1288	21			CCB	EU				0.0005		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
788	1288	21			CCB	FE				0.0018		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
789	1288	21			CCB	K				-0.0233		1.0000	05/18/95	14:41	big	0.3	@ICP-QC			
790	1288	21			CCB	LA				0.0002		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
791	1288	21			CCB	LI				0.0006		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
792	1288	21			CCB	MG				-0.0014		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
793	1288	21			CCB	MN				0.0003		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
794	1288	21			CCB	MO				0.0068		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
795	1288	21			CCB	NA				0.0010		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
796	1288	21			CCB	ND				-0.0013		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
797	1288	21			CCB	NI				-0.0005		1.0000	05/18/95	14:41	big	0.02	@ICP-QC			
798	1288	21			CCB	P				0.0138		1.0000	05/18/95	14:41	big	0.2	@ICP-QC			
799	1288	21			CCB	PB				0.0070		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
800	1288	21			CCB	S				0.0075		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
801	1288	21			CCB	SB				0.0128		1.0000	05/18/95	14:41	big	0.2	@ICP-QC			
802	1288	21			CCB	SE				0.0156		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
803	1288	21			CCB	SI				0.0043		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
804	1288	21			CCB	SM				0.0053		1.0000	05/18/95	14:41	big	0.1	@ICP-QC			
805	1288	21			CCB	SR				0.0002		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
806	1288	21			CCB	TH				0.0023		1.0000	05/18/95	14:41	big	0	@ICP-QC			
807	1288	21			CCB	TI				0.0000		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
808	1288	21			CCB	TL				-0.0452		1.0000	05/18/95	14:41	big	0.2	@ICP-QC			
809	1288	21			CCB	U				0.0093		1.0000	05/18/95	14:41	big	0.4	@ICP-QC			
810	1288	21			CCB	V				0.0009		1.0000	05/18/95	14:41	big	0.05	@ICP-QC			
811	1288	21			CCB	Y				0.0001		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
812	1288	21			CCB	ZN				0.0009		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			
813	1288	21			CCB	ZR				0.0001		1.0000	05/18/95	14:41	big	0.01	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

SP 05/24/95

LABCORE Data Entry Template for Worklist# 1289

Analyst: JKS/JA **Instrument:** ~~ICP01~~ ICP02 **Book#** 41848

Method: LA-505-~~151~~ 161 Rev/Mod ~~J-K~~ J-K #-1

Worklist Comment: ICP BX-109 DIRECT

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	SAMPLE	S95T000816	0	D	@ICP-D03	LIQUID	95000059	BX-109
	Analytes Requested: LI-D-01							
6	DUP	S95T000816	0	D	@ICP-D03	LIQUID		
7	SPK	S95T000816	0	D	@ICP-D03	LIQUID		
8	ICSA				@ICP-QC	QC		
9	ICSAB				@ICP-QC	QC		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		

Final page for worklist # 1289

JKS/JA 5-9-95

Analyst Signature **Date** **Analyst Signature** **Date**

S95T000816_L 1-9-14 50

S95T000816 1-9 10

S95T000816_D 1-9 10

S95T000816_Q 1-9 10 1ml sample + 2ml SST5 + 7ml HNO_3

Data Entry Comments:

SP 05/9/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950509C	ICP2	05/09/95	12:44	DKS	Q	CONC
2	ICB	950509C	ICP2	05/09/95	12:49	DKS	Q	CONC
3	ICSA	950509C	ICP2	05/09/95	12:53	DKS	Q	CONC
4	ICSAB	950509C	ICP2	05/09/95	12:57	DKS	Q	CONC
5	S95T000816_L	950509C	ICP2	05/09/95	13:04	DKS	S	CONC
6	S95T000816_L	950509C	ICP2	05/09/95	13:11	DKS	S	CONC
7	S95T000816	950509C	ICP2	05/09/95	13:15	DKS	S	CONC
8	S95T000816_D	950509C	ICP2	05/09/95	13:19	DKS	S	CONC
9	S95T000816_A	950509C	ICP2	05/09/95	13:23	DKS	S	CONC
10	ICSA	950509C	ICP2	05/09/95	13:27	DKS	Q	CONC
11	ICSAB	950509C	ICP2	05/09/95	13:30	DKS	Q	CONC
12	CCV	950509C	ICP2	05/09/95	13:34	DKS	Q	CONC
13	CCB	950509C	ICP2	05/09/95	13:38	DKS	Q	CONC

WHC-SD-WM-DP-154, REV. 0

DK Lee
5-9-95

BY-109 S95T000816

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 484 TO 490.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.918	4.932	5.096	4.932	4.898	5.178
2	ICB	.0007	.0002	-.0062	.0010	-.0001	.0000
3	ICSA	.0007	234.3	.0357	-.0060	.0030	.0003
4	ICSAB	.9382	237.3	.0018	-.0053	.4496	.4667
5	S95T000816_L	-.0002	-.0098	-.0262	-.0051	-.0001	-.0001
6	S95T000816_L	-.0402	.1594	.1021	-.0261	.0097	.0020
7	S95T000816_	.0017	.0221	.0918	.0306	.0031	.0008
8	S95T000816_D	.0001	.0598	.0196	.0306	.0035	.0008
9	S95T000816_A	2.148	9.498	10.06	9.550	9.193	9.857
10	ICSA	.0034	232.2	.0647	-.0003	.0030	.0001
11	ICSAB	.9387	236.9	.0547	.0018	.4440	.4636
12	CCV	4.958	4.920	5.101	4.893	4.838	5.166
13	CCB	.0023	.0030	-.0005	-.0020	-.0000	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	4.983	4.931	5.080	4.994	5.094	5.075
2	ICB	-.0148	-.0024	-.0004	.0014	.0014	.0009
3	ICSA	.0412	238.2	.0013	.0053	.0018	-.0043
4	ICSAB	.0578	240.4	.9230	.0081	.4544	.4570
5	S95T000816_L	-.0111	.0338	.0021	-.0129	-.0010	-.0002
6	S95T000816_L	.2869	.3953	.1849	.0112	.0278	-.0046
7	S95T000816_	-.1338	.5856	.1896	.0348	-.0016	-.0034
8	S95T000816_D	-.1070	.5530	.1974	.0494	-.0072	.0016
9	S95T000816_A	9.365	10.24	9.944	9.610	9.787	9.848
10	ICSA	.0299	243.7	.0008	.0066	.0026	-.0066
11	ICSAB	.0451	242.2	.9212	.0082	.4527	.4540
12	CCV	5.049	5.175	5.141	4.968	5.167	5.147
13	CCB	-.0043	.0014	-.0008	.0052	-.0003	-.0007

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.009	.0095	5.054	4.930	4.987	4.935
2	ICB	-.0002	-.0001	-.0012	.1815	-.0001	.0001
3	ICSA	-.0052	.0346	90.60	.1892	-.0037	.0017
4	ICSAB	.4671	.0312	90.53	.1976	-.0032	.9402
5	S95T000816_L	.0028	-.0005	.0018	-.1148	-.0022	38.94
6	S95T000816_L	.1199	-.0644	-.0709	-2.897	-.0465	1961.
7	S95T000816_	.1244	-.0055	.0174	-.2659	-.0028	1906.
8	S95T000816_D	.1351	-.0060	.0261	1.402	-.0025	1906.
9	S95T000816_A	9.651	.0170	9.770	9.206	9.546	1905.
10	ICSA	-.0054	.0195	90.67	.1186	-.0037	.0038
11	ICSAB	.4635	.0266	90.38	.1417	-.0035	.9240
12	CCV	4.951	.0112	5.088	4.979	4.944	4.788
13	CCB	-.0002	-.0004	-.0011	.1953	-.0000	-.0004

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.932	4.937	5.037	4.895	5.127	5.048
2	ICB	-.0037	-.0002	-.0000	-.0036	.0001	.0014
3	ICSA	238.3	.0008	-.0093	185.5	.0202	-.0031
4	ICSAB	237.6	.4430	-.0130	185.5	.0150	.8903
5	S95T000816_L	.0033	-.0004	-.0000	.0318	.0007	-.0054
6	S95T000816_L	-.1742	-.0231	.1932	.2982	-.1010	-.0194
7	S95T000816_	.0025	.0039	.0329	.7062	-.0114	.1171
8	S95T000816_D	.0146	.0039	.0057	.7028	-.0069	.1050
9	S95T000816_A	9.233	9.371	9.880	10.10	9.765	9.762
10	ICSA	237.0	.0014	-.0111	181.2	.0162	-.0179
11	ICSAB	237.8	.4425	-.0101	183.8	.0142	.8823
12	CCV	4.910	4.992	5.096	4.788	5.056	5.096
13	CCB	-.0054	-.0003	.0035	-.0046	-.0009	.0051

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.115	5.016	5.048	4.753	5.004	4.688
2	ICB	.0145	-.0158	-.0043	.0010	-.0089	-.0046
3	ICSA	.1579	.0365	.0092	.0058	.1143	.0271
4	ICSAB	.1686	.9788	.0066	.0006	.1190	.0274
5	S95T000816_L	.0292	-.0176	.0103	-.0031	-.0143	.0189
6	S95T000816_L	1.175	-.6285	.5229	-.0032	-.3201	-.4632
7	S95T000816_	.2319	.3113	.0686	-.0132	.0836	.1520
8	S95T000816_D	.2890	.2322	-.0315	-.0436	.1020	.2462
9	S95T000816_A	10.24	10.16	9.878	9.223	9.965	9.493
10	ICSA	.1914	.0719	-.0052	.0085	.1387	.0333
11	ICSAB	.1796	.9730	.0015	.0093	.1073	.0295
12	CCV	5.126	5.122	5.082	4.776	5.020	4.738
13	CCB	.0127	-.0243	-.0008	.0081	-.0032	-.0032

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.983	4.911	-.0216	4.877	4.924	9.880
2	ICB	-.0023	-.0001	.0039	.0000	.0019	-.0157
3	ICSA	-.0136	.0008	-.0154	.0017	.0649	.0577
4	ICSAB	-.0107	.0008	-.0198	.0013	.0398	.0631
5	S95T000816_L	-.0087	-.0000	-.0065	.0013	-.0248	-.0362
6	S95T000816_L	-.6644	-.0082	.1542	-.0231	-.0886	-3.037
7	S95T000816_	-.0818	.0024	.0619	.0065	.1752	-.2898
8	S95T000816_D	-.0655	.0024	.0399	.0110	.0278	-.2851
9	S95T000816_A	9.462	9.374	.0205	9.443	9.449	18.78
10	ICSA	-.0050	-.0004	-.0101	.0015	.0605	.0492
11	ICSAB	-.0089	.0001	-.0145	.0009	.0431	.0530
12	CCV	4.936	4.864	-.0087	4.885	4.916	9.754
13	CCB	-.0069	-.0000	.0048	-.0005	-.0258	-.0294

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.964	.0118	5.111	4.951
2	ICB	-.0005	-.0002	-.0003	-.0012
3	ICSA	.0011	.0095	-.0008	-.0017
4	ICSAB	.4576	.0100	.9429	-.0009
5	S95T000816_L	-.0018	-.0007	.0038	-.0004
6	S95T000816_L	-.1543	-.0470	.2561	-.0562
7	S95T000816_	-.0053	-.0047	.2579	-.0140
8	S95T000816_D	-.0015	-.0047	.2513	-.0123
9	S95T000816_A	9.631	.0196	10.06	9.516
10	ICSA	.0035	.0102	-.0010	-.0016
11	ICSAB	.4576	.0100	.9425	-.0013
12	CCV	5.002	.0122	5.180	4.949
13	CCB	-.0009	-.0005	.0001	-.0013

JK Lato

5-9-95

BY-109 S95T000816

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1289	1			ICV	AG				4.9181		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
2	1289	1			ICV	AL				4.9318		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
3	1289	1			ICV	AS				5.0958		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
4	1289	1			ICV	B				4.9317		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
5	1289	1			ICV	BA				4.8878		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
6	1289	1			ICV	BE				5.1779		1.0000	05/09/95	12:44	dks	0.005	@ICP-QC			
7	1289	1			ICV	BI				4.9832		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
8	1289	1			ICV	CA				4.9310		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
9	1289	1			ICV	CD				5.0798		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
10	1289	1			ICV	CE				4.9937		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
11	1289	1			ICV	CO				5.0044		1.0000	05/09/95	12:44	dks	0.02	@ICP-QC			
12	1289	1			ICV	CR				5.0751		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
13	1289	1			ICV	CU				5.0087		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
14	1289	1			ICV	EU				0.0095		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
15	1289	1			ICV	FE				5.0544		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
16	1289	1			ICV	K				4.9305		1.0000	05/09/95	12:44	dks	0.3	@ICP-QC			
17	1289	1			ICV	LA				4.9985		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
18	1289	1			ICV	LI				4.9350		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
19	1289	1			ICV	MG				4.9324		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
20	1289	1			ICV	MN				4.9375		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
21	1289	1			ICV	MO				5.0373		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
22	1289	1			ICV	NA				4.8955		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
23	1289	1			ICV	ND				5.1270		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
24	1289	1			ICV	NI				5.0485		1.0000	05/09/95	12:44	dks	0.02	@ICP-QC			
25	1289	1			ICV	P				5.1146		1.0000	05/09/95	12:44	dks	0.2	@ICP-QC			
26	1289	1			ICV	PB				5.0163		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
27	1289	1			ICV	S				5.0479		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
28	1289	1			ICV	SB				4.7527		1.0000	05/09/95	12:44	dks	0.2	@ICP-QC			
29	1289	1			ICV	SE				5.0038		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
30	1289	1			ICV	SI				4.6880		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
31	1289	1			ICV	SM				4.9829		1.0000	05/09/95	12:44	dks	0.1	@ICP-QC			
32	1289	1			ICV	SR				4.9114		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
33	1289	1			ICV	TH				-0.0218		1.0000	05/09/95	12:44	dks	0	@ICP-QC			
34	1289	1			ICV	TI				4.8773		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
35	1289	1			ICV	TL				4.9243		1.0000	05/09/95	12:44	dks	0.2	@ICP-QC			
36	1289	1			ICV	U				9.8798		1.0000	05/09/95	12:44	dks	0.4	@ICP-QC			
37	1289	1			ICV	V				4.9645		1.0000	05/09/95	12:44	dks	0.05	@ICP-QC			
38	1289	1			ICV	Y				0.0118		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
39	1289	1			ICV	ZN				5.1113		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
40	1289	1			ICV	ZR				4.9510		1.0000	05/09/95	12:44	dks	0.01	@ICP-QC			
41	1289	2			ICB	AG				0.0007		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
42	1289	2			ICB	AL				0.0002		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
43	1289	2			ICB	AS				-0.0062		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
44	1289	2			ICB	B				0.0010		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
45	1289	2			ICB	BA				-0.0001		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
46	1289	2			ICB	BE				0.0000		1.0000	05/09/95	12:49	dks	0.005	@ICP-QC			
47	1289	2			ICB	BI				-0.0148		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
48	1289	2			ICB	CA				-0.0024		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
49	1289	2			ICB	CD				-0.0004		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
50	1289	2			ICB	CE				0.0014		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
51	1289	2			ICB	CO				0.0014		1.0000	05/09/95	12:49	dks	0.02	@ICP-QC			
52	1289	2			ICB	CR				0.0009		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
53	1289	2			ICB	CU				-0.0002		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
54	1289	2			ICB	EU				-0.0001		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
55	1289	2			ICB	FE				-0.0012		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
56	1289	2			ICB	K				0.1615		1.0000	05/09/95	12:49	dks	0.3	@ICP-QC			
57	1289	2			ICB	LA				-0.0001		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
58	1289	2			ICB	LI				0.0001		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
59	1289	2			ICB	MG				-0.0037		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
60	1289	2			ICB	MN				-0.0002		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
61	1289	2			ICB	MO				-0.0000		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
62	1289	2			ICB	NA				-0.0036		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
63	1289	2			ICB	ND				0.0001		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
64	1289	2			ICB	NI				0.0014		1.0000	05/09/95	12:49	dks	0.02	@ICP-QC			
65	1289	2			ICB	P				0.0145		1.0000	05/09/95	12:49	dks	0.2	@ICP-QC			
66	1289	2			ICB	PB				-0.0156		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
67	1289	2			ICB	S				-0.0043		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
68	1289	2			ICB	SB				0.0010		1.0000	05/09/95	12:49	dks	0.2	@ICP-QC			
69	1289	2			ICB	SE				-0.0089		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
70	1289	2			ICB	SI				-0.0047		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
71	1289	2			ICB	SM				-0.0023		1.0000	05/09/95	12:49	dks	0.1	@ICP-QC			
72	1289	2			ICB	SR				-0.0001		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
73	1289	2			ICB	TH				0.0039		1.0000	05/09/95	12:49	dks	0	@ICP-QC			
74	1289	2			ICB	TI				0.0000		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
75	1289	2			ICB	TL				0.0019		1.0000	05/09/95	12:49	dks	0.2	@ICP-QC			
76	1289	2			ICB	U				-0.0157		1.0000	05/09/95	12:49	dks	0.4	@ICP-QC			
77	1289	2			ICB	V				-0.0005		1.0000	05/09/95	12:49	dks	0.05	@ICP-QC			
78	1289	2			ICB	Y				-0.0002		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
79	1289	2			ICB	ZN				-0.0003		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
80	1289	2			ICB	ZR				-0.0012		1.0000	05/09/95	12:49	dks	0.01	@ICP-QC			
81	1289	3			ICSA	AG				0.0007		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
82	1289	3			ICSA	AL				234.3456		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
83	1289	3			ICSA	AS				0.0357		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
84	1289	3			ICSA	B				-0.0060		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
85	1289	3			ICSA	BA				0.0030		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
86	1289	3			ICSA	BE				0.0003		1.0000	05/09/95	12:53	dks	0.005	@ICP-QC			
87	1289	3			ICSA	BI				0.0412		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
88	1289	3			ICSA	CA				238.2465		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
89	1289	3			ICSA	CD				0.0013		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
90	1289	3			ICSA	CE				0.0053		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
91	1289	3			ICSA	CO				0.0018		1.0000	05/09/95	12:53	dks	0.02	@ICP-QC			
92	1289	3			ICSA	CR				-0.0043		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
93	1289	3			ICSA	CU				-0.0052		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
94	1289	3			ICSA	EU				0.0346		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
95	1289	3			ICSA	FE				90.5988		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
96	1289	3			ICSA	K				0.1892		1.0000	05/09/95	12:53	dks	0.3	@ICP-QC			
97	1289	3			ICSA	LA				-0.0037		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
98	1289	3			ICSA	LI				0.0017		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
99	1289	3			ICSA	MG				238.3180		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
100	1289	3			ICSA	MN				0.0008		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
101	1289	3			ICSA	MO				-0.0063		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
102	1289	3			ICSA	NA				185.5049		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
103	1289	3			ICSA	ND				0.0202		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
104	1289	3			ICSA	NI				-0.0031		1.0000	05/09/95	12:53	dks	0.02	@ICP-QC			
105	1289	3			ICSA	P				0.1579		1.0000	05/09/95	12:53	dks	0.2	@ICP-QC			
106	1289	3			ICSA	PB				0.0365		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
107	1289	3			ICSA	S				0.0092		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
108	1289	3			ICSA	SB				0.0058		1.0000	05/09/95	12:53	dks	0.2	@ICP-QC			
109	1289	3			ICSA	SE				0.1143		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
110	1289	3			ICSA	SI				0.0271		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
111	1289	3			ICSA	SM				-0.0136		1.0000	05/09/95	12:53	dks	0.1	@ICP-QC			
112	1289	3			ICSA	SR				0.0008		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
113	1289	3			ICSA	TH				-0.0154		1.0000	05/09/95	12:53	dks	0	@ICP-QC			
114	1289	3			ICSA	TI				0.0017		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
115	1289	3			ICSA	TL				0.0649		1.0000	05/09/95	12:53	dks	0.2	@ICP-QC			
116	1289	3			ICSA	U				0.0577		1.0000	05/09/95	12:53	dks	0.4	@ICP-QC			
117	1289	3			ICSA	V				0.0011		1.0000	05/09/95	12:53	dks	0.05	@ICP-QC			
118	1289	3			ICSA	Y				0.0095		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
119	1289	3			ICSA	ZN				-0.0008		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
120	1289	3			ICSA	ZR				-0.0017		1.0000	05/09/95	12:53	dks	0.01	@ICP-QC			
121	1289	4			ICSAB	AG				0.9382		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
122	1289	4			ICSAB	AL				237.3053		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

483

05/9/95

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
123	1289	4			ICSAB	AS				0.0018		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
124	1289	4			ICSAB	B				-0.0053		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
125	1289	4			ICSAB	BA				0.4496		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
126	1289	4			ICSAB	BE				0.4667		1.0000	05/09/95	12:57	dks	0.005	@ICP-QC			
127	1289	4			ICSAB	BI				0.0578		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
128	1289	4			ICSAB	CA				240.4179		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
129	1289	4			ICSAB	CD				0.9230		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
130	1289	4			ICSAB	CE				0.0081		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
131	1289	4			ICSAB	CO				0.4544		1.0000	05/09/95	12:57	dks	0.02	@ICP-QC			
132	1289	4			ICSAB	CR				0.4570		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
133	1289	4			ICSAB	CU				0.4671		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
134	1289	4			ICSAB	EU				0.0312		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
135	1289	4			ICSAB	FE				90.5252		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
136	1289	4			ICSAB	K				0.1976		1.0000	05/09/95	12:57	dks	0.3	@ICP-QC			
137	1289	4			ICSAB	LA				-0.0032		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
138	1289	4			ICSAB	LI				0.9402		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
139	1289	4			ICSAB	MG				237.5662		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
140	1289	4			ICSAB	MN				0.4430		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
141	1289	4			ICSAB	MO				-0.0130		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
142	1289	4			ICSAB	NA				185.5267		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
143	1289	4			ICSAB	ND				0.0150		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
144	1289	4			ICSAB	NI				0.8903		1.0000	05/09/95	12:57	dks	0.02	@ICP-QC			
145	1289	4			ICSAB	P				0.1686		1.0000	05/09/95	12:57	dks	0.2	@ICP-QC			
146	1289	4			ICSAB	PB				0.9788		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
147	1289	4			ICSAB	S				0.0086		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
148	1289	4			ICSAB	SB				0.0006		1.0000	05/09/95	12:57	dks	0.2	@ICP-QC			
149	1289	4			ICSAB	SE				0.1190		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
150	1289	4			ICSAB	SI				0.0274		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
151	1289	4			ICSAB	SM				-0.0107		1.0000	05/09/95	12:57	dks	0.1	@ICP-QC			
152	1289	4			ICSAB	SR				0.0008		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
153	1289	4			ICSAB	TH				-0.0198		1.0000	05/09/95	12:57	dks	0	@ICP-QC			
154	1289	4			ICSAB	TI				0.0013		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
155	1289	4			ICSAB	TL				0.0398		1.0000	05/09/95	12:57	dks	0.2	@ICP-QC			
156	1289	4			ICSAB	U				0.0631		1.0000	05/09/95	12:57	dks	0.4	@ICP-QC			
157	1289	4			ICSAB	V				0.4578		1.0000	05/09/95	12:57	dks	0.05	@ICP-QC			
158	1289	4			ICSAB	Y				0.0100		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
159	1289	4			ICSAB	ZN				0.9429		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
160	1289	4			ICSAB	ZR				-0.0009		1.0000	05/09/95	12:57	dks	0.01	@ICP-QC			
161	1289	5	S95T000616			LI-D-01				1906.1614		10.0000	05/09/95	13:15	dks	0.01	@ICP-D03			
162	1289	6	S95T000616		DUP	LI-D-01		1906.1614		1908.1337		10.0000	05/09/95	13:19	dks	0.01	@ICP-D03			
163	1289	7	S95T000616_A		SPK	LI-D-01		1916.1614		1905.0339		10.0000	05/09/95	13:23	dks	0.01	@ICP-D03			
164	1289	8			ICSA	AG				0.0034		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
165	1289	8			ICSA	AL				232.1892		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
166	1289	8			ICSA	AS				0.0647		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
167	1289	8			ICSA	B				-0.0003		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
168	1289	8			ICSA	BA				0.0030		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
169	1289	8			ICSA	BE				0.0002		1.0000	05/09/95	13:27	dks	0.005	@ICP-QC			
170	1289	8			ICSA	BI				0.0299		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
171	1289	8			ICSA	CA				243.6562		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
172	1289	8			ICSA	CD				0.0008		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
173	1289	8			ICSA	CE				0.0086		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
174	1289	8			ICSA	CO				0.0026		1.0000	05/09/95	13:27	dks	0.02	@ICP-QC			
175	1289	8			ICSA	CR				-0.0066		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
176	1289	8			ICSA	CU				-0.0054		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
177	1289	8			ICSA	EU				0.0195		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
178	1289	8			ICSA	FE				90.8654		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
179	1289	8			ICSA	K				0.1186		1.0000	05/09/95	13:27	dks	0.3	@ICP-QC			
180	1289	8			ICSA	LA				-0.0037		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
181	1289	8			ICSA	LI				0.0038		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
182	1289	8			ICSA	MG				236.9800		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
183	1289	8			ICSA	MN				0.0015		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
184	1289	8			ICSA	MO				-0.0111		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
185	1289	8			ICSA	NA				181.1845		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
186	1289	8			ICSA	ND				0.0182		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
187	1289	8			ICSA	NI				-0.0179		1.0000	05/09/95	13:27	dks	0.02	@ICP-QC			
188	1289	8			ICSA	P				0.1914		1.0000	05/09/95	13:27	dks	0.2	@ICP-QC			
189	1289	8			ICSA	PB				0.0719		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
190	1289	8			ICSA	S				-0.0052		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
191	1289	8			ICSA	SB				0.0085		1.0000	05/09/95	13:27	dks	0.2	@ICP-QC			
192	1289	8			ICSA	SE				0.1387		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
193	1289	8			ICSA	SI				0.0333		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
194	1289	8			ICSA	SM				-0.0050		1.0000	05/09/95	13:27	dks	0.1	@ICP-QC			
195	1289	8			ICSA	SR				-0.0004		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
196	1289	8			ICSA	TH				-0.0101		1.0000	05/09/95	13:27	dks	0	@ICP-QC			
197	1289	8			ICSA	TI				0.0015		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
198	1289	8			ICSA	TL				0.0805		1.0000	05/09/95	13:27	dks	0.2	@ICP-QC			
199	1289	8			ICSA	U				0.0492		1.0000	05/09/95	13:27	dks	0.4	@ICP-QC			
200	1289	8			ICSA	V				0.0035		1.0000	05/09/95	13:27	dks	0.05	@ICP-QC			
201	1289	8			ICSA	Y				0.0102		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
202	1289	8			ICSA	ZN				-0.0010		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
203	1289	8			ICSA	ZR				-0.0016		1.0000	05/09/95	13:27	dks	0.01	@ICP-QC			
204	1289	9			ICSAB	AG				0.9387		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
205	1289	9			ICSAB	AL				236.8583		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
206	1289	9			ICSAB	AS				0.0547		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
207	1289	9			ICSAB	B				0.0018		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
208	1289	9			ICSAB	BA				0.4440		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
209	1289	9			ICSAB	BE				0.4636		1.0000	05/09/95	13:30	dks	0.005	@ICP-QC			
210	1289	9			ICSAB	BI				0.0451		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
211	1289	9			ICSAB	CA				242.1890		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
212	1289	9			ICSAB	CD				0.9212		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
213	1289	9			ICSAB	CE				0.0082		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
214	1289	9			ICSAB	CO				0.4527		1.0000	05/09/95	13:30	dks	0.02	@ICP-QC			
215	1289	9			ICSAB	CR				0.4540		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
216	1289	9			ICSAB	CU				0.4635		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
217	1289	9			ICSAB	EU				0.0266		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
218	1289	9			ICSAB	FE				90.3622		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
219	1289	9			ICSAB	K				0.1417		1.0000	05/09/95	13:30	dks	0.3	@ICP-QC			
220	1289	9			ICSAB	LA				-0.0035		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
221	1289	9			ICSAB	LI				0.9240		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
222	1289	9			ICSAB	MG				237.7705		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
223	1289	9			ICSAB	MN				0.4425		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
224	1289	9			ICSAB	MO				-0.0101		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
225	1289	9			ICSAB	NA				183.8289		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
226	1289	9			ICSAB	ND				0.0142		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
227	1289	9			ICSAB	NI				0.8823		1.0000	05/09/95	13:30	dks	0.02	@ICP-QC			
228	1289	9			ICSAB	P				0.1796		1.0000	05/09/95	13:30	dks	0.2	@ICP-QC			
229	1289	9			ICSAB	PB				0.9730		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
230	1289	9			ICSAB	S				0.0015		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
231	1289	9			ICSAB	SB				0.0093		1.0000	05/09/95	13:30	dks	0.2	@ICP-QC			
232	1289	9			ICSAB	SE				0.1073		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
233	1289	9			ICSAB	SI				0.0295		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
234	1289	9			ICSAB	SM				-0.0089		1.0000	05/09/95	13:30	dks	0.1	@ICP-QC			
235	1289	9			ICSAB	SR				0.0001		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
236	1289	9			ICSAB	TH				-0.0145		1.0000	05/09/95	13:30	dks	0	@ICP-QC			
237	1289	9			ICSAB	TI				0.0009		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
238	1289	9			ICSAB	TL				0.0431		1.0000	05/09/95	13:30	dks	0.2	@ICP-QC			
239	1289	9			ICSAB	U				0.0550		1.0000	05/09/95	13:30	dks	0.4	@ICP-QC			
240	1289	9			ICSAB	V				0.4578		1.0000	05/09/95	13:30	dks	0.05	@ICP-QC			
241	1289	9			ICSAB	Y				0.0100		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
242	1289	9			ICSAB	ZN				0.9425		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
243	1289	9			ICSAB	ZR				-0.0013		1.0000	05/09/95	13:30	dks	0.01	@ICP-QC			
244	1289	10			CCV	AG				4.9578		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
345	1289	10			CCV	AL				4.9196		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
346	1289	10			CCV	AS				5.1009		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
347	1289	10			CCV	B				4.8928		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
348	1289	10			CCV	BA				4.8383		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
349	1289	10			CCV	BE				5.1884		1.0000	05/09/95	13:34	dks	0.005	@ICP-QC			
350	1289	10			CCV	BI				5.0486		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
351	1289	10			CCV	CA				5.1751		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
352	1289	10			CCV	CD				5.1412		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
353	1289	10			CCV	CE				4.9682		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
354	1289	10			CCV	CO				5.1671		1.0000	05/09/95	13:34	dks	0.02	@ICP-QC			
355	1289	10			CCV	CR				5.1470		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
356	1289	10			CCV	CU				4.9515		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
357	1289	10			CCV	EU				0.0112		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
358	1289	10			CCV	FE				5.0877		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
359	1289	10			CCV	K				4.9790		1.0000	05/09/95	13:34	dks	0.3	@ICP-QC			
360	1289	10			CCV	LA				4.9443		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
361	1289	10			CCV	LI				4.7879		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
362	1289	10			CCV	MG				4.9099		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
363	1289	10			CCV	MN				4.9916		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
364	1289	10			CCV	MO				5.0959		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
365	1289	10			CCV	NA				4.7583		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
366	1289	10			CCV	ND				5.0562		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
367	1289	10			CCV	NI				5.0955		1.0000	05/09/95	13:34	dks	0.02	@ICP-QC			
368	1289	10			CCV	P				5.1257		1.0000	05/09/95	13:34	dks	0.2	@ICP-QC			
369	1289	10			CCV	PB				5.1221		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
370	1289	10			CCV	S				5.0822		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
371	1289	10			CCV	SB				4.7760		1.0000	05/09/95	13:34	dks	0.2	@ICP-QC			
372	1289	10			CCV	SE				5.0198		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
373	1289	10			CCV	SI				4.7380		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
374	1289	10			CCV	SM				4.9359		1.0000	05/09/95	13:34	dks	0.1	@ICP-QC			
375	1289	10			CCV	SR				4.8636		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
376	1289	10			CCV	TH				-0.0087		1.0000	05/09/95	13:34	dks	0	@ICP-QC			
377	1289	10			CCV	TI				4.8852		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
378	1289	10			CCV	TL				4.9184		1.0000	05/09/95	13:34	dks	0.2	@ICP-QC			
379	1289	10			CCV	U				9.7537		1.0000	05/09/95	13:34	dks	0.4	@ICP-QC			
380	1289	10			CCV	V				5.0017		1.0000	05/09/95	13:34	dks	0.05	@ICP-QC			
381	1289	10			CCV	Y				0.0122		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
382	1289	10			CCV	ZN				5.1800		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
383	1289	10			CCV	ZR				4.9492		1.0000	05/09/95	13:34	dks	0.01	@ICP-QC			
384	1289	11			CCB	AG				0.0023		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
385	1289	11			CCB	AL				0.0030		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
386	1289	11			CCB	AS				-0.0005		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
387	1289	11			CCB	B				-0.0020		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
388	1289	11			CCB	BA				-0.0000		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
389	1289	11			CCB	BE				0.0002		1.0000	05/09/95	13:38	dks	0.005	@ICP-QC			
390	1289	11			CCB	BI				-0.0043		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
391	1289	11			CCB	CA				0.0014		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
392	1289	11			CCB	CD				-0.0008		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
393	1289	11			CCB	CE				0.0052		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
394	1289	11			CCB	CO				-0.0003		1.0000	05/09/95	13:38	dks	0.02	@ICP-QC			
395	1289	11			CCB	CR				-0.0007		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
396	1289	11			CCB	CU				-0.0002		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
397	1289	11			CCB	EU				-0.0004		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
398	1289	11			CCB	FE				-0.0011		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
399	1289	11			CCB	K				0.1853		1.0000	05/09/95	13:38	dks	0.3	@ICP-QC			
400	1289	11			CCB	LA				-0.0000		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
401	1289	11			CCB	LI				-0.0004		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
402	1289	11			CCB	MG				-0.0054		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
403	1289	11			CCB	MN				-0.0003		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
404	1289	11			CCB	MO				0.0035		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
405	1289	11			CCB	NA				-0.0048		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
406	1289	11			CCB	ND				-0.0009		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
407	1289	11			CCB	NI				0.0051		1.0000	05/09/95	13:38	dks	0.02	@ICP-QC			
408	1289	11			CCB	P				0.0127		1.0000	05/09/95	13:38	dks	0.2	@ICP-QC			
409	1289	11			CCB	PB				-0.0243		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
410	1289	11			CCB	S				-0.0008		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
411	1289	11			CCB	SB				0.0081		1.0000	05/09/95	13:38	dks	0.2	@ICP-QC			
412	1289	11			CCB	SE				-0.0032		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
413	1289	11			CCB	SI				-0.0032		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
414	1289	11			CCB	SM				-0.0089		1.0000	05/09/95	13:38	dks	0.1	@ICP-QC			
415	1289	11			CCB	SR				-0.0000		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
416	1289	11			CCB	TH				0.0048		1.0000	05/09/95	13:38	dks	0	@ICP-QC			
417	1289	11			CCB	TI				-0.0005		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
418	1289	11			CCB	TL				-0.0258		1.0000	05/09/95	13:38	dks	0.2	@ICP-QC			
419	1289	11			CCB	U				-0.0294		1.0000	05/09/95	13:38	dks	0.4	@ICP-QC			
420	1289	11			CCB	V				-0.0009		1.0000	05/09/95	13:38	dks	0.05	@ICP-QC			
421	1289	11			CCB	Y				-0.0005		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
422	1289	11			CCB	ZN				0.0001		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			
423	1289	11			CCB	ZR				-0.0013		1.0000	05/09/95	13:38	dks	0.01	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

SP 05/09/95

File # 09505236

LABCORE Data Entry Template for Worklist# 1304

Analyst: B. GOECKE **Instrument:** ~~ICP01~~ ICP02 **Book#** ~~41949B~~ 41949A

Method: LA-505-~~151~~ 154, Rev/Mod A-1

Worklist Comment: ICP BX-109 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T000760	0	F	@ICP-F01	SOLID	95000057	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
7	DUP	S95T000760	0	F	@ICP-F01	SOLID		
8	SPK	S95T000760	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T000763	0	F	@ICP-F01	SOLID	95000057	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
12	DUP	S95T000763	0	F	@ICP-F01	SOLID		

Data Entry Comments:
S95T000760 T. spike % Rec. = 4399 - 61 / 4601 = 84.3% 5/Jaw 05/04/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1304

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T000763	0	F	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 1304

Analyst Signature: [signature] Date: 5-23-95

Analyst Signature Date

		S.S	D.F
PREP BLK TST	1mL - 5mL		10
S95T000760	.5185g in 250mL - 1mL - 5mL		4868
5X	2mL - 5mL		24343
S95T000760.D	.5726g in 250mL - 1mL - 2mL		4877
POST	1mL - 2mL - 7mL		4868
S95T000763	.5933g in 250mL - 1mL 5mL		4601
5X	2mL - 5mL		23008
S95T000763.D	.5282g in 250mL - 1mL 2mL		4733
POST			4601

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SST5 41B48A	950523B	ICP2	05/23/95	13:46	BJG	Q	CONC
2	ICV	950523B	ICP2	05/23/95	13:49	BJG	Q	CONC
3	ICB	950523B	ICP2	05/23/95	13:53	BJG	Q	CONC
4	ICSA	950523B	ICP2	05/23/95	13:57	BJG	Q	CONC
5	ICSAB	950523B	ICP2	05/23/95	14:00	BJG	Q	CONC
6	PREPBLKTJA	950523B	ICP2	05/23/95	14:04	BJG	S	CONC
7	S95T000760_L	950523B	ICP2	05/23/95	14:08	BJG	S	CONC
8	S95T000760	950523B	ICP2	05/23/95	14:12	BJG	S	CONC
9	S95T000760_D	950523B	ICP2	05/23/95	14:15	BJG	S	CONC
10	S95T000760_A	950523B	ICP2	05/23/95	14:19	BJG	S	CONC
11	CCV	950523B	ICP2	05/23/95	14:33	BJG	Q	CONC
12	CCB	950523B	ICP2	05/23/95	14:36	BJG	Q	CONC
13	S95T000763_L	950523B	ICP2	05/23/95	14:40	BJG	S	CONC
14	S95T000763	950523B	ICP2	05/23/95	14:43	BJG	S	CONC
15	S95T000763_D	950523B	ICP2	05/23/95	14:47	BJG	S	CONC
16	S95T000763_A	950523B	ICP2	05/23/95	14:51	BJG	S	CONC
17	ICSA	950523B	ICP2	05/23/95	14:54	BJG	Q	CONC
18	ICSAB	950523B	ICP2	05/23/95	14:58	BJG	Q	CONC
19	CCV_1	950523B	ICP2	05/23/95	15:02	BJG	Q	CONC
20	CCB_1	950523B	ICP2	05/23/95	15:06	BJG	Q	CONC

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

BJG 5-23-95 Fax's BX-109 S95T000760,763

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 493 TO 502.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	SST5 41B48A	5.076	5.076	5.238	5.090	5.038	5.251
2	ICV	5.085	5.061	5.245	5.069	5.013	5.238
3	ICB	.0005	-.0034	.0035	.0098	.0001	.0001
4	ICSA	-.0006	243.8	-.0032	.0048	.0031	.0002
5	ICSAB	.9715	244.9	-.0017	.0059	.4638	.4772
6	PREPBLKTJA	.0033	.0181	-.0814	.0305	.0217	.0004
7	S95T000760_L	-35.22	4386.	231.6	124.9	73.85	2.824
8	S95T000760_	-2.401	4313.	11.04	41.62	65.32	.9395
9	S95T000760_D	-3.367	4378.	57.47	37.30	63.57	.3587
10	S95T000760_A	4014.	8771.	5091.	4611.	4375.	4738.
11	CCV	5.055	5.095	5.157	5.087	5.049	5.246
12	CCB	-.0038	-.0031	-.0205	-.0010	.0000	-.0001
13	S95T000763_L	-145.5	1114.	-57.08	-2.605	47.74	-3.463
14	S95T000763_	-21.61	1227.	-47.74	38.01	46.39	-.8862
15	S95T000763_D	-28.65	1231.	-106.5	46.20	48.43	-.9220
16	S95T000763_A	1123.	5602.	4656.	4419.	4260.	4507.
17	ICSA	-.0027	247.6	-.0768	.0064	.0033	-.0001
18	ICSAB	.9709	248.8	-.0532	-.0032	.4700	.4853
19	CCV_1	5.065	5.061	5.205	5.070	5.000	5.267
20	CCB_1	-.0053	-.0101	-.0129	.0021	.0001	-.0003

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SST5 41B48A	5.137	5.189	5.187	5.127	5.173	5.198
2	ICV	5.118	5.236	5.205	5.094	5.193	5.217
3	ICB	.0028	.0086	-.0003	-.0038	.0011	-.0012
4	ICSA	.0387	255.5	.0001	.0039	-.0008	-.0088
5	ICSAB	.0217	252.1	.9464	.0040	.4685	.4663
6	PREPBLKTJA	-8.744	.6952	.0079	-.0223	.0002	-.0043
7	S95T000760_L	-4432.	5523.	-14.32	-33.73	62.46	75.79
8	S95T000760_	-4537.	5739.	-10.58	-33.42	16.55	106.0
9	S95T000760_D	-3896.	5627.	-6.024	-.4125	4.234	94.41
10	S95T000760_A	516.0	11030.	4924.	4513.	4881.	5053.
11	CCV	5.097	5.163	5.182	5.129	5.186	5.201
12	CCB	-.0098	-.0028	-.0008	-.0018	-.0011	.0003
13	S95T000763_L	-3607.	1989.	-35.96	-331.6	-64.26	108.5
14	S95T000763_	-3232.	2515.	-15.98	-33.59	-11.88	112.3
15	S95T000763_D	-4387.	2549.	-16.53	5.617	-5.017	119.0
16	S95T000763_A	1273.	7170.	4557.	4372.	4572.	4711.
17	ICSA	.0727	255.8	-.0014	.0227	-.0007	-.0049
18	ICSAB	.0370	252.0	.9567	.0120	.4757	.4759
19	CCV_1	5.133	5.275	5.232	5.102	5.221	5.242
20	CCB_1	-.0093	.0116	-.0009	.0028	-.0040	-.0005

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	SST5 41B48A	5.093	.0098	5.189	4.866	5.102	5.081
2	ICV	5.053	.0102	5.199	4.959	5.070	5.001
3	ICB	-.0009	.0012	.0023	-.0231	.0003	.0014
4	ICSA	-.0074	.0053	94.40	.0725	-.0048	.0030
5	ICSAB	.4796	.0105	92.99	.0266	-.0046	.9598

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	Cu	Eu	Fe	K	La	Li
6	PREPBLKTJA	.0085	.0245	.0829	12120.	-.0136	.0127
7	S95T000760_L	32.38	36.10	25770.	7055e3	-6.943	22.14
8	S95T000760_	38.95	18.51	25130.	6744e3	.0196	13.72
9	S95T000760_D	29.92	22.48	33920.	5911e3	5.291	18.63
10	S95T000760_A	4456.	31.78	29890.	6590e3	4468.	4166.
11	CCV	5.123	.0089	5.193	5.112	5.122	5.144
12	CCB	-.0014	-.0001	-.0003	-.0021	.0007	.0002
13	S95T000763_L	2.846	-20.24	20110.	5212e3	-20.62	-4.612
14	S95T000763_	16.35	3.814	19690.	4967e3	7.474	11.53
15	S95T000763_D	22.77	5.749	19790.	6552e3	11.97	15.18
16	S95T000763_A	4373.	18.57	24150.	4854e3	4366.	4249.
17	ICSA	-.0078	.0080	95.56	.3942	-.0011	.0039
18	ICSAB	.4859	.0162	94.44	.0852	-.0030	.9845
19	CCV_1	5.082	.0102	5.200	4.996	5.092	5.011
20	CCB_1	-.0019	.0019	.0022	.1789	.0013	.0015

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	SST5 41B48A	5.056	5.094	5.183	5.026	5.246	5.174
2	ICV	5.039	5.111	5.193	4.979	5.208	5.175
3	ICB	-.0030	.0006	.0004	.0065	-.0016	.0048
4	ICSA	249.1	.0011	-.0124	189.0	.0119	-.0099
5	ICSAB	246.2	.4571	-.0129	189.5	.0149	.9119
6	PREPBLKTJA	.1622	.0414	-.0111	4.158	.0059	13.32
7	S95T000760_L	1047.	227.8	-48.49	109400.	13.39	5970.
8	S95T000760_	1130.	215.1	9.507	104300.	30.42	6015.
9	S95T000760_D	1082.	259.9	-5.873	98030.	28.98	6264.
10	S95T000760_A	5467.	4903.	4958.	106400.	4540.	10970.
11	CCV	5.054	5.095	5.172	5.087	5.265	5.167
12	CCB	-.0099	-.0001	.0006	.0000	-.0017	-.0045
13	S95T000763_L	504.2	123.3	27.04	119300.	7.695	4674.
14	S95T000763_	546.2	129.2	4.075	113700.	17.94	4591.
15	S95T000763_D	624.6	136.0	5.542	112300.	32.82	5833.
16	S95T000763_A	4763.	4491.	4593.	115400.	4463.	9203.
17	ICSA	253.9	.0001	-.0119	195.0	.0202	-.0175
18	ICSAB	251.1	.4604	-.0138	194.4	.0189	.9409
19	CCV_1	5.025	5.102	5.206	4.949	5.221	5.206
20	CCB_1	-.0046	.0003	.0006	.0122	-.0010	.0033

#	Sample Name	P	Pb	S	Sb	Se	Si
1	SST5 41B48A	5.332	5.178	5.190	4.862	5.224	4.699
2	ICV	5.211	5.208	5.148	4.885	5.218	4.701
3	ICB	-.0028	.0206	-.0121	-.0006	.0329	.0120
4	ICSA	.1468	.0580	-.0254	.0048	.1154	.0356
5	ICSAB	.1420	1.008	-.0024	-.0154	.0974	.0321
6	PREPBLKTJA	.1383	.3614	.2018	-.0573	-2.015	.4329
7	S95T000760_L	23030.	1389.	6623.	-70.24	-895.6	1061.
8	S95T000760_	23380.	770.3	6177.	-25.88	-1177.	1054.
9	S95T000760_D	21880.	817.1	5999.	-5.465	-908.9	1069.
10	S95T000760_A	28240.	5903.	11040.	4577.	3804.	5669.
11	CCV	5.148	5.172	5.147	4.892	5.174	4.944

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	P	Pb	S	Sb	Se	Si
12	CCB	-.0213	-.0191	.0103	.0075	-.0114	-.0021
13	S95T000763_L	22300.	.4283	6841.	-27.01	-1629.	210.9
14	S95T000763_	23050.	236.5	6630.	3.951	-1077.	465.6
15	S95T000763_D	22910.	249.6	6515.	-49.00	-1385.	579.1
16	S95T000763_A	27300.	4933.	11100.	4361.	3606.	4974.
17	ICSA	.1173	.0689	-.0061	.0035	.1228	.0335
18	ICSAB	.1166	1.012	-.0099	.0040	.0707	.0308
19	CCV_1	5.194	5.222	5.131	4.913	5.230	4.942
20	CCB_1	-.0273	.0092	-.0001	.0083	.0243	.0056

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	SST5 41B48A	5.118	5.011	-.0487	4.968	5.081	10.10
2	ICV	5.074	4.978	-.0508	4.956	5.061	10.01
3	ICB	.0118	.0000	-.0052	-.0004	-.0014	.0592
4	ICSA	-.0025	.0007	-.0241	-.0005	.0273	.1067
5	ICSAB	-.0039	-.0002	-.0263	.0004	.0349	.1237
6	PREPBLKTJA	.1543	.0038	.1030	.0203	.2108	-2.510
7	S95T000760_L	263.6	594.6	-82.78	103.6	-479.5	13430.
8	S95T000760_	128.7	570.7	15.46	136.0	3.004	11920.
9	S95T000760_D	179.1	568.9	33.17	130.9	50.67	11230.
10	S95T000760_A	4545.	4942.	19.15	4667.	4625.	20470.
11	CCV	5.149	5.027	-.0651	4.991	5.048	10.15
12	CCB	-.0007	.0002	.0021	-.0002	-.0102	-.0099
13	S95T000763_L	-224.8	484.2	14.99	30.67	-342.0	9768.
14	S95T000763_	27.97	473.2	30.37	61.00	-1.515	10310.
15	S95T000763_D	33.70	471.6	58.97	64.88	26.78	9966.
16	S95T000763_A	4425.	4743.	-7.557	4399.	4208.	18950.
17	ICSA	.0057	.0014	-.0195	.0014	.0507	.2186
18	ICSAB	-.0011	.0014	-.0220	.0000	.0415	.2016
19	CCV_1	5.089	5.007	-.0657	4.985	5.081	10.07
20	CCB_1	.0176	.0003	-.0020	-.0002	-.0023	.0710

#	Sample Name	V	Y	Zn	Zr
1	SST5 41B48A	4.952	.0122	5.192	5.067
2	ICV	4.950	.0125	5.220	5.054
3	ICB	.0025	.0006	-.0005	.0013
4	ICSA	.0017	.0105	-.0018	-.0002
5	ICSAB	.4694	.0104	.9774	-.0006
6	PREPBLKTJA	.0490	.0094	.0441	.0920
7	S95T000760_L	79.56	26.71	276.2	79.87
8	S95T000760_	42.13	19.84	107.8	54.96
9	S95T000760_D	53.43	22.55	148.6	39.86
10	S95T000760_A	4673.	34.34	5118.	4663.
11	CCV	4.961	.0126	5.189	5.092
12	CCB	-.0013	-.0001	-.0007	-.0001
13	S95T000763_L	-68.52	-1.804	214.7	-9.053
14	S95T000763_	7.688	10.46	110.4	6.621
15	S95T000763_D	12.57	11.50	102.4	23.23
16	S95T000763_A	4510.	25.25	4734.	4419.
17	ICSA	.0026	.0109	-.0037	-.0003

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	V	Y	Zn	Zr
18	ICSAB	.4768	.0105	.9844	-.0001
19	CCV_1	4.983	.0129	5.230	5.093
20	CCB_1	.0030	.0009	-.0010	.0039

gf 05/12/95

BEST AVAILABLE COPY

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1304	1			ICV	AG				5.0849			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
2	1304	1			ICV	AL				5.0613			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
3	1304	1			ICV	AS				5.2453			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
4	1304	1			ICV	B				5.0693			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
5	1304	1			ICV	BA				5.0133			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
6	1304	1			ICV	BE				5.2379			1.0000	05/23/95	13:49	mg	0.005	@ICP-QC			
7	1304	1			ICV	BI				5.1178			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
8	1304	1			ICV	CA				5.2362			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
9	1304	1			ICV	CD				5.2053			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
10	1304	1			ICV	CE				5.0937			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
11	1304	1			ICV	CO				5.1925			1.0000	05/23/95	13:49	mg	0.02	@ICP-QC			
12	1304	1			ICV	CR				5.2170			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
13	1304	1			ICV	CU				5.0527			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
14	1304	1			ICV	EU				0.0102			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
15	1304	1			ICV	FE				5.1987			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
16	1304	1			ICV	K				4.9584			1.0000	05/23/95	13:49	mg	0.3	@ICP-QC			
17	1304	1			ICV	LA				5.0701			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
18	1304	1			ICV	LI				5.0011			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
19	1304	1			ICV	MG				5.0387			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
20	1304	1			ICV	MN				5.1113			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
21	1304	1			ICV	MO				5.1926			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
22	1304	1			ICV	NA				4.9789			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
23	1304	1			ICV	NI				5.2082			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
24	1304	1			ICV	P				5.1753			1.0000	05/23/95	13:49	mg	0.02	@ICP-QC			
25	1304	1			ICV	PB				5.2107			1.0000	05/23/95	13:49	mg	0.2	@ICP-QC			
26	1304	1			ICV	S				5.2078			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
27	1304	1			ICV	SB				5.1477			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
28	1304	1			ICV	SE				4.8648			1.0000	05/23/95	13:49	mg	0.2	@ICP-QC			
29	1304	1			ICV	SI				5.2178			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
30	1304	1			ICV	SM				4.7009			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
31	1304	1			ICV	SN				5.0747			1.0000	05/23/95	13:49	mg	0.1	@ICP-QC			
32	1304	1			ICV	SR				4.9782			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
33	1304	1			ICV	TH				-0.0508			1.0000	05/23/95	13:49	mg	0	@ICP-QC			
34	1304	1			ICV	TI				4.9580			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
35	1304	1			ICV	TL				5.0614			1.0000	05/23/95	13:49	mg	0.2	@ICP-QC			
36	1304	1			ICV	U				10.0119			1.0000	05/23/95	13:49	mg	0.4	@ICP-QC			
37	1304	1			ICV	V				4.9504			1.0000	05/23/95	13:49	mg	0.05	@ICP-QC			
38	1304	1			ICV	Y				0.0125			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
39	1304	1			ICV	ZN				5.2203			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
40	1304	1			ICV	ZR				5.0535			1.0000	05/23/95	13:49	mg	0.01	@ICP-QC			
41	1304	2			ICB	AG				0.0005			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
42	1304	2			ICB	AL				-0.0034			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
43	1304	2			ICB	AS				0.0025			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
44	1304	2			ICB	B				0.0068			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
45	1304	2			ICB	BA				0.0001			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
46	1304	2			ICB	BE				0.0002			1.0000	05/23/95	13:53	mg	0.005	@ICP-QC			
47	1304	2			ICB	BI				0.0029			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
48	1304	2			ICB	CA				0.0060			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
49	1304	2			ICB	CD				-0.0003			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
50	1304	2			ICB	CE				-0.0038			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
51	1304	2			ICB	CO				0.0011			1.0000	05/23/95	13:53	mg	0.02	@ICP-QC			
52	1304	2			ICB	CR				-0.0012			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
53	1304	2			ICB	CU				-0.0009			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
54	1304	2			ICB	EU				0.0012			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
55	1304	2			ICB	FE				0.0023			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
56	1304	2			ICB	K				-0.0231			1.0000	05/23/95	13:53	mg	0.3	@ICP-QC			
57	1304	2			ICB	LA				0.0003			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
58	1304	2			ICB	LI				0.0014			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
59	1304	2			ICB	MG				-0.0030			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
60	1304	2			ICB	MN				0.0005			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
61	1304	2			ICB	MO				0.0004			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
62	1304	2			ICB	NA				0.0065			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
63	1304	2			ICB	NI				-0.0015			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
64	1304	2			ICB	P				0.0048			1.0000	05/23/95	13:53	mg	0.02	@ICP-QC			
65	1304	2			ICB	PB				-0.0028			1.0000	05/23/95	13:53	mg	0.2	@ICP-QC			
66	1304	2			ICB	S				0.0206			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
67	1304	2			ICB	SB				-0.0121			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
68	1304	2			ICB	SE				-0.0006			1.0000	05/23/95	13:53	mg	0.2	@ICP-QC			
69	1304	2			ICB	SI				0.0329			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
70	1304	2			ICB	SM				0.0120			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
71	1304	2			ICB	SN				0.0018			1.0000	05/23/95	13:53	mg	0.1	@ICP-QC			
72	1304	2			ICB	SR				0.0000			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
73	1304	2			ICB	TH				-0.0052			1.0000	05/23/95	13:53	mg	0	@ICP-QC			
74	1304	2			ICB	TI				-0.0004			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
75	1304	2			ICB	TL				-0.0015			1.0000	05/23/95	13:53	mg	0.2	@ICP-QC			
76	1304	2			ICB	U				0.0582			1.0000	05/23/95	13:53	mg	0.4	@ICP-QC			
77	1304	2			ICB	V				0.0025			1.0000	05/23/95	13:53	mg	0.05	@ICP-QC			
78	1304	2			ICB	Y				0.0006			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
79	1304	2			ICB	ZN				-0.0005			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
80	1304	2			ICB	ZR				0.0013			1.0000	05/23/95	13:53	mg	0.01	@ICP-QC			
81	1304	3			ICSA	AG				-0.0006			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
82	1304	3			ICSA	AL				243.1744			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
83	1304	3			ICSA	AS				-0.0032			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
84	1304	3			ICSA	B				0.0048			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
85	1304	3			ICSA	BA				0.0031			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
86	1304	3			ICSA	BE				0.0002			1.0000	05/23/95	13:57	mg	0.005	@ICP-QC			
87	1304	3			ICSA	BI				0.0387			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
88	1304	3			ICSA	CA				255.4526			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
89	1304	3			ICSA	CD				0.0001			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
90	1304	3			ICSA	CE				0.0039			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
91	1304	3			ICSA	CO				-0.0008			1.0000	05/23/95	13:57	mg	0.02	@ICP-QC			
92	1304	3			ICSA	CR				-0.0086			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
93	1304	3			ICSA	CU				-0.0074			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
94	1304	3			ICSA	EU				0.0053			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
95	1304	3			ICSA	FE				94.4015			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
96	1304	3			ICSA	K				-0.0725			1.0000	05/23/95	13:57	mg	0.3	@ICP-QC			
97	1304	3			ICSA	LA				-0.0048			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
98	1304	3			ICSA	LI				0.0030			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
99	1304	3			ICSA	MG				249.0924			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
100	1304	3			ICSA	MN				0.0011			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
101	1304	3			ICSA	MO				-0.0124			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
102	1304	3			ICSA	NA				189.0126			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
103	1304	3			ICSA	NI				0.0119			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
104	1304	3			ICSA	P				-0.0089			1.0000	05/23/95	13:57	mg	0.02	@ICP-QC			
105	1304	3			ICSA	PB				0.1458			1.0000	05/23/95	13:57	mg	0.2	@ICP-QC			
106	1304	3			ICSA	S				0.0580			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
107	1304	3			ICSA	SB				-0.0254			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
108	1304	3			ICSA	SE				0.0048			1.0000	05/23/95	13:57	mg	0.2	@ICP-QC			
109	1304	3			ICSA	SI				0.1154			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
110	1304	3			ICSA	SM				0.0258			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
111	1304	3			ICSA	SN				-0.0025			1.0000	05/23/95	13:57	mg	0.1	@ICP-QC			
112	1304	3			ICSA	SR				0.0007			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
113	1304	3			ICSA	TH				-0.0241			1.0000	05/23/95	13:57	mg	0	@ICP-QC			
114	1304	3			ICSA	TI				-0.0005			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
115	1304	3			ICSA	TL				0.0273			1.0000	05/23/95	13:57	mg	0.2	@ICP-QC			
116	1304	3			ICSA	U				0.1067			1.0000	05/23/95	13:57	mg	0.4	@ICP-QC			
117	1304	3			ICSA	V				0.0017			1.0000	05/23/95	13:57	mg	0.05	@ICP-QC			
118	1304	3			ICSA	Y				0.0105			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
119	1304	3			ICSA	ZN				-0.0018			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
120	1304	3			ICSA	ZR				-0.0002			1.0000	05/23/95	13:57	mg	0.01	@ICP-QC			
121	1304	4			ICSAB	AG				0.9715			1.0000	05/23/95	14:00	mg	0.01	@ICP-QC			
122	1304	4			ICSAB	AL				244.8730			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
123	1304	4			ICSAB	AS				-0.0017			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
124	1304	4			ICSAB	B				0.0058			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
125	1304	4			ICSAB	BA				0.4538			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
126	1304	4			ICSAB	BE				0.4772			1.0000	05/23/95	14:00	mg	0.005	@ICP-QC			
127	1304	4			ICSAB	BI				0.0217			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
128	1304	4			ICSAB	CA				252.0509			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
129	1304	4			ICSAB	CD				0.9464			1.0000	05/23/95	14:00	mg	0.01	@ICP-QC			
130	1304	4			ICSAB	CE				0.9040			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
131	1304	4			ICSAB	CO				0.4685			1.0000	05/23/95	14:00	mg	0.02	@ICP-QC			
132	1304	4			ICSAB	CR				0.4663			1.0000	05/23/95	14:00	mg	0.01	@ICP-QC			
133	1304	4			ICSAB	CU				0.4796			1.0000	05/23/95	14:00	mg	0.01	@ICP-QC			
134	1304	4			ICSAB	EU				0.0105			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
135	1304	4			ICSAB	FE				92.8940			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
136	1304	4			ICSAB	K				0.0266			1.0000	05/23/95	14:00	mg	0.3	@ICP-QC			
137	1304	4			ICSAB	LA				-0.0046			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
138	1304	4			ICSAB	LI				0.9696			1.0000	05/23/95	14:00	mg	0.01	@ICP-QC			
139	1304	4			ICSAB	MG				245.2084			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
140	1304	4			ICSAB	MN				0.4571			1.0000	05/23/95	14:00	mg	0.01	@ICP-QC			
141	1304	4			ICSAB	MO				-0.0129			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
142	1304	4			ICSAB	NA				189.4804			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
143	1304	4			ICSAB	NI				0.9149			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
144	1304	4			ICSAB	P				0.9119			1.0000	05/23/95	14:00	mg	0.02	@ICP-QC			
145	1304	4			ICSAB	PB				0.1429			1.0000	05/23/95	14:00	mg	0.2	@ICP-QC			
146	1304	4			ICSAB	S				1.0078			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
147	1304	4			ICSAB	SB				-0.0024			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
148	1304	4			ICSAB	SE				-0.0154			1.0000	05/23/95	14:00	mg	0.2	@ICP-QC			
149	1304	4			ICSAB	SI				0.0974			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
150	1304	4			ICSAB	SM				0.0321			1.0000	05/23/95	14:00	mg	0.05	@ICP-QC			
151	1304	4			ICSAB	SN				-0.0039			1.0000	05/23/95	14:00	mg	0.1	@ICP-QC			
152	1304	4			ICSAB	SR				0.0000			1.0000	05/23/95	14:00	mg	0.01	@ICP-QC			
153	1304	4			ICSAB	TH				-0.0261			1.0000	05/23/95	14:00	mg	0	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

493

5/05/95

OUTPUT	A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	Q	R	S	T
184	1304	4			ICSAB	TI				0.0004	1.0000	05/23/95	14:00	tag		0.01	@CP-QC		
185	1304	4			ICSAB	TL				0.0349	1.0000	05/23/95	14:00	tag		0.2	@CP-QC		
186	1304	4			ICSAB	U				0.1237	1.0000	05/23/95	14:00	tag		0.4	@CP-QC		
187	1304	4			ICSAB	V				0.4684	1.0000	05/23/95	14:00	tag		0.05	@CP-QC		
188	1304	4			ICSAB	Y				0.0104	1.0000	05/23/95	14:00	tag		0.01	@CP-QC		
189	1304	4			ICSAB	ZN				0.9774	1.0000	05/23/95	14:00	tag		0.01	@CP-QC		
190	1304	4			ICSAB	ZR				-0.0008	1.0000	05/23/95	14:00	tag		0.01	@CP-QC		
191	1304	5			PREBLKTJA	AG-F-01				0.0033	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
192	1304	5			PREBLKTJA	AL-F-01				0.0181	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
193	1304	5			PREBLKTJA	AS-F-01				-0.0814	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
194	1304	5			PREBLKTJA	B-F-01				0.0305	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
195	1304	5			PREBLKTJA	BA-F-01				0.0217	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
196	1304	5			PREBLKTJA	BE-F-01				0.0004	10.0000	05/23/95	14:04	tag		0.005	@CP-F01		
197	1304	5			PREBLKTJA	BI-F-01				-8.7443	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
198	1304	5			PREBLKTJA	CA-F-01				0.9952	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
199	1304	5			PREBLKTJA	CD-F-01				0.0079	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
200	1304	5			PREBLKTJA	CE-F-01				0.0223	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
201	1304	5			PREBLKTJA	CO-F-01				0.0002	10.0000	05/23/95	14:04	tag		0.02	@CP-F01		
202	1304	5			PREBLKTJA	CR-F-01				-0.0043	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
203	1304	5			PREBLKTJA	CUM-F-01				0.0085	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
204	1304	5			PREBLKTJA	EU-F-01				0.0245	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
205	1304	5			PREBLKTJA	FE-F-01				0.0829	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
206	1304	5			PREBLKTJA	K-F-01				12124.5896	10.0000	05/23/95	14:04	tag		0.3	@CP-F01		
207	1304	5			PREBLKTJA	LA-F-01				-0.0138	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
208	1304	5			PREBLKTJA	LH-F-01				0.0127	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
209	1304	5			PREBLKTJA	MG-F-01				0.1622	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
210	1304	5			PREBLKTJA	MN-F-01				0.0214	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
211	1304	5			PREBLKTJA	MO-F-01				-0.0111	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
212	1304	5			PREBLKTJA	NA-F-01				4.1580	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
213	1304	5			PREBLKTJA	ND-F-01				0.0058	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
214	1304	5			PREBLKTJA	NI-F-01				13.3214	10.0000	05/23/95	14:04	tag		0.02	@CP-F01		
215	1304	5			PREBLKTJA	P-F-01				0.1383	10.0000	05/23/95	14:04	tag		0.2	@CP-F01		
216	1304	5			PREBLKTJA	PB-F-01				0.1614	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
217	1304	5			PREBLKTJA	S-F-01				0.2018	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
218	1304	5			PREBLKTJA	SB-F-01				-0.0173	10.0000	05/23/95	14:04	tag		0.2	@CP-F01		
219	1304	5			PREBLKTJA	SE-F-01				2.0151	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
220	1304	5			PREBLKTJA	SI-F-01				0.4329	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
221	1304	5			PREBLKTJA	SM-F-01				0.1543	10.0000	05/23/95	14:04	tag		0.1	@CP-F01		
222	1304	5			PREBLKTJA	SR-F-01				0.0038	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
223	1304	5			PREBLKTJA	TH-F-01				0.0102	10.0000	05/23/95	14:04	tag		0	@CP-F01		
224	1304	5			PREBLKTJA	TM-F-01				0.0203	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
225	1304	5			PREBLKTJA	TL-F-01				0.2108	10.0000	05/23/95	14:04	tag		0.2	@CP-F01		
226	1304	5			PREBLKTJA	U-F-01				-2.5095	10.0000	05/23/95	14:04	tag		0.4	@CP-F01		
227	1304	5			PREBLKTJA	V-F-01				0.0490	10.0000	05/23/95	14:04	tag		0.05	@CP-F01		
228	1304	5			PREBLKTJA	Y-F-01				0.0094	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
229	1304	5			PREBLKTJA	ZN-F-01				0.0441	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
230	1304	5			PREBLKTJA	ZR-F-01				0.0920	10.0000	05/23/95	14:04	tag		0.01	@CP-F01		
231	1304	6	S9570000760			AG-F-01		<	48.6800	48.6800	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
232	1304	6	S9570000760			AL-F-01				4312.8257	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
233	1304	6	S9570000760			AS-F-01		<	243.4000	243.4000	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
234	1304	6	S9570000760			B-F-01		<	243.4000	243.4000	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
235	1304	6	S9570000760			BA-F-01		<	243.4000	243.4000	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
236	1304	6	S9570000760			BE-F-01		<	24.3400	24.3400	4868.0000	05/23/95	14:12	tag		0.005	@CP-F01		
237	1304	6	S9570000760			BI-F-01		<	486.8000	486.8000	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
238	1304	6	S9570000760			CA-F-01				5738.9873	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
239	1304	6	S9570000760			CD-F-01		<	48.6800	48.6800	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
240	1304	6	S9570000760			CE-F-01		<	486.8000	486.8000	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
241	1304	6	S9570000760			CO-F-01				97.3600	4868.0000	05/23/95	14:12	tag		0.02	@CP-F01		
242	1304	6	S9570000760			CR-F-01				106.0234	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
243	1304	6	S9570000760			CUM-F-01		<	48.6800	48.6800	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
244	1304	6	S9570000760			FE-F-01				25131.4596	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
245	1304	6	S9570000760			K-F-01				6743977.0000	4868.0000	05/23/95	14:12	tag		0.3	@CP-F01		
246	1304	6	S9570000760			LA-F-01		<	243.4000	243.4000	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
247	1304	6	S9570000760			LI-F-01		<	48.6800	48.6800	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
248	1304	6	S9570000760			MG-F-01				1129.9473	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
249	1304	6	S9570000760			MN-F-01				215.0891	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
250	1304	6	S9570000760			MO-F-01		<	243.4000	243.4000	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
251	1304	6	S9570000760			NA-F-01				1041.8641	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
252	1304	6	S9570000760			ND-F-01		<	486.8000	486.8000	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
253	1304	6	S9570000760			NI-F-01				6014.5020	4868.0000	05/23/95	14:12	tag		0.02	@CP-F01		
254	1304	6	S9570000760			P-F-01				23384.4160	4868.0000	05/23/95	14:12	tag		0.2	@CP-F01		
255	1304	6	S9570000760			PB-F-01				770.3101	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
256	1304	6	S9570000760			S-F-01				6176.8203	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
257	1304	6	S9570000760			SB-F-01		<	973.6000	973.6000	4868.0000	05/23/95	14:12	tag		0.2	@CP-F01		
258	1304	6	S9570000760			SE-F-01		<	486.8000	486.8000	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
259	1304	6	S9570000760			SI-F-01				1054.4207	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
260	1304	6	S9570000760			SM-F-01		<	486.8000	486.8000	4868.0000	05/23/95	14:12	tag		0.1	@CP-F01		
261	1304	6	S9570000760			SR-F-01				570.7244	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
262	1304	6	S9570000760			TH-F-01				135.9883	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
263	1304	6	S9570000760			TL-F-01		<	973.6000	973.6000	4868.0000	05/23/95	14:12	tag		0.2	@CP-F01		
264	1304	6	S9570000760			U-F-01				11917.6123	4868.0000	05/23/95	14:12	tag		0.4	@CP-F01		
265	1304	6	S9570000760			V-F-01		<	243.4000	243.4000	4868.0000	05/23/95	14:12	tag		0.05	@CP-F01		
266	1304	6	S9570000760			ZN-F-01				107.8402	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
267	1304	6	S9570000760			ZR-F-01				54.9616	4868.0000	05/23/95	14:12	tag		0.01	@CP-F01		
268	1304	7	S9570000760	DUP		AG-F-01	48.6800			48.7706	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
269	1304	7	S9570000760	DUP		AL-F-01	4312.8257			4377.8176	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
270	1304	7	S9570000760	DUP		AS-F-01	243.4000			243.8500	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
271	1304	7	S9570000760	DUP		B-F-01	243.4000			243.8500	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
272	1304	7	S9570000760	DUP		BA-F-01	243.4000			243.8500	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
273	1304	7	S9570000760	DUP		BE-F-01	24.3400			24.3850	4877.0000	05/23/95	14:15	tag		0.005	@CP-F01		
274	1304	7	S9570000760	DUP		BI-F-01	486.8000			487.7000	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
275	1304	7	S9570000760	DUP		CA-F-01	5738.9873			5626.8984	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
276	1304	7	S9570000760	DUP		CD-F-01	48.6800			48.7700	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
277	1304	7	S9570000760	DUP		CE-F-01	486.8000			487.7000	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
278	1304	7	S9570000760	DUP		CO-F-01	97.3600			97.5400	4877.0000	05/23/95	14:15	tag		0.02	@CP-F01		
279	1304	7	S9570000760	DUP		CR-F-01	106.0234			94.4000	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
280	1304	7	S9570000760	DUP		CUM-F-01	48.6800			48.7706	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
281	1304	7	S9570000760	DUP		FE-F-01	25131.4596			33917.3086	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
282	1304	7	S9570000760	DUP		K-F-01	6743977.0000			5911010.5000	4877.0000	05/23/95	14:15	tag		0.3	@CP-F01		
283	1304	7	S9570000760	DUP		LA-F-01	243.4000			243.8500	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
284	1304	7	S9570000760	DUP		LI-F-01	48.6800			48.7700	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
285	1304	7	S9570000760	DUP		MG-F-01	1129.9473			1081.5586	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
286	1304	7	S9570000760	DUP		MN-F-01	215.0891			259.8586	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
287	1304	7	S9570000760	DUP		MO-F-01	243.4000			243.8500	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
288	1304	7	S9570000760	DUP		NA-F-01	1041.8641			96803.1016	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
289	1304	7	S9570000760	DUP		ND-F-01	486.8000			487.7000	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
290	1304	7	S9570000760	DUP		NI-F-01	6014.5020			5264.1328	4877.0000	05/23/95	14:15	tag		0.02	@CP-F01		
291	1304	7	S9570000760	DUP		P-F-01	23384.4160			21863.8516	4877.0000	05/23/95	14:15	tag		0.2	@CP-F01		
292	1304	7	S9570000760	DUP		PB-F-01	770.3101			817.0502	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
293	1304	7	S9570000760	DUP		S-F-01	6176.8203			5908.9621	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
294	1304	7	S9570000760	DUP		SB-F-01	973.6000			975.4000	4877.0000	05/23/95	14:15	tag		0.2	@CP-F01		
295	1304	7	S9570000760	DUP		SE-F-01	486.8000			487.7000	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
296	1304	7	S9570000760	DUP		SI-F-01	1054.4207			1069.4962	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
297	1304	7	S9570000760	DUP		SM-F-01	486.8000			487.7000	4877.0000	05/23/95	14:15	tag		0.1	@CP-F01		
298	1304	7	S9570000760	DUP		SR-F-01	570.7244			568.9726	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
299	1304	7	S9570000760	DUP		TH-F-01	135.9883			130.8712	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
300	1304	7	S9570000760	DUP		TL-F-01	973.6000			975.4000	4877.0000	05/23/95	14:15	tag		0.2	@CP-F01		
301	1304	7	S9570000760	DUP		U-F-01	11917.6123			11230.3506	4877.0000	05/23/95	14:15	tag		0.4	@CP-F01		
302	1304	7	S9570000760	DUP		V-F-01	243.4000			243.8500	4877.0000	05/23/95	14:15	tag		0.05	@CP-F01		
303	1304	7	S9570000760	DUP		ZN-F-01	107.8402			148.5887	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
304	1304	7	S9570000760	DUP		ZR-F-01	54.9616			448.7700	4877.0000	05/23/95	14:15	tag		0.01	@CP-F01		
305	1304	8	S9570000760_A			AG-F-01	5000.00			4013.6335	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		
306	1304	8	S9570000760_A			AL-F-01	5000.00			4458.0317	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
307	1304	8	S9570000760_A			AS-F-01	5000.00			5696.6025	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
308	1304	8	S9570000760_A			B-F-01	5000.00			4410.5771	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
309	1304	8	S9570000760_A			BA-F-01	5000.00			4321.1772	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
310	1304	8	S9570000760_A			BE-F-01	5000.00			4321.1772	4868.0000	05/23/95	14:19	tag		0.005	@CP-F01		
311	1304	8	S9570000760_A			BI-F-01	5000.00			516.0022	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
312	1304	8	S9570000760_A			CA-F-01	5000.00			5386.9613	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
313	1304	8	S9570000760_A			CD-F-01	5000.00			4004.1269	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		
314	1304	8	S9570000760_A			CE-F-01	5000.00			4513.4443	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
315	1304	8	S9570000760_A			CO-F-01	5000.00			4881.0077	4868.0000	05/23/95	14:19	tag		0.02	@CP-F01		
316	1304	8	S9570000760_A			CR-F-01	5000.00			4947.5462	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		
317	1304	8	S9570000760_A			CUM-F-01	5000.00			4455.8237	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		
318	1304	8	S9570000760_A			FE-F-01	5000.00			4784.3233	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
319	1304	8	S9570000760_A			K-F-01	0.00			6596282.0000	4868.0000	05/23/95	14:19	tag		0.3	@CP-F01		
320	1304	8	S9570000760_A			LA-F-01	5000.00			4469.1970	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
321	1304	8	S9570000760_A			LI-F-01	5000.00			4185.9816	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		
322	1304	8	S9570000760_A			MG-F-01	5000.00			4536.702	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
323	1304	8	S9570000760_A			MN-F-01	5000.00			4587.8075	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		
324	1304	8	S9570000760_A			MO-F-01	5000.00			4957.9370	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
325	1304	8	S9570000760_A			NA-F-01	0.00			106374.1797	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
326	1304	8	S9570000760_A			ND-F-01	5000.00			4540.3074	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
327	1304	8	S9570000760_A			NI-F-01	5000.00			4958.4453	4868.0000	05/23/95	14:19	tag		0.02	@CP-F01		
328	1304	8	S9570000760_A			P-F-01	5000.00			4857.9922	4868.0000	05/23/95	14:19	tag		0.2	@CP-F01		
329	1304	8	S9570000760_A			PB-F-01	5000.00			5132.3286	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
330	1304	8	S9570000760_A			S-F-01	5000.00			4856.23929	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
331	1304	8	S9570000760_A			SB-F-01	5000.00			4576.8960	4868.0000	05/23/95	14:19	tag		0.2	@CP-F01		
332	1304	8	S9570000760_A			SE-F-01	5000.00			3804.1147	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
333	1304	8	S9570000760_A			SI-F-01	5000.00			4614.29553	4868.0000	05/23/95	14:19	tag		0.05	@CP-F01		
334	1304	8	S9570000760_A			SM-F-01	5000.00			4545.1516	4868.0000	05/23/95	14:19	tag		0.1	@CP-F01		
335	1304	8	S9570000760_A			SR-F-01	5000.00			4371.7081	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		
336	1304	8	S9570000760_A			TH-F-01	5000.00			4531.3087	4868.0000	05/23/95	14:19	tag		0.01	@CP-F01		

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
307	1304	8	SI9570007601_A			TL-F-01		5000 00		4624 7544		4868 0000	05/23/95	14:19	Rep	0.2	@ICP-F01			
308	1304	8	SI9570007601_A			U-F-01		10000 00		8552 3877		4868 0000	05/23/95	14:19	Rep	0.4	@ICP-F01			
309	1304	8	SI9570007601_A			V-F-01		5000 00		4673 3262		4868 0000	05/23/95	14:19	Rep	0.05	@ICP-F01			
310	1304	8	SI9570007601_A			ZN-F-01		5000 00		5009 923		4868 0000	05/23/95	14:19	Rep	0.01	@ICP-F01			
311	1304	8	SI9570007601_A			ZR-F-01		5000 00		4608 4979		4868 0000	05/23/95	14:19	Rep	0.01	@ICP-F01			
312	1304	9			CCV	AG				5 0549		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
313	1304	9			CCV	AL				5 0953		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
314	1304	9			CCV	AS				5 1567		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
315	1304	9			CCV	B				5 0873		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
316	1304	9			CCV	BA				5 0492		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
317	1304	9			CCV	BE				5 2481		1 0000	05/23/95	14:33	Rep	0.005	@ICP-QC			
318	1304	9			CCV	BI				5 0967		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
319	1304	9			CCV	CA				5 1628		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
320	1304	9			CCV	CD				5 1821		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
321	1304	9			CCV	CE				5 1290		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
322	1304	9			CCV	CO				5 1857		1 0000	05/23/95	14:33	Rep	0.02	@ICP-QC			
323	1304	9			CCV	CR				5 2010		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
324	1304	9			CCV	CU				5 1232		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
325	1304	9			CCV	EU				0 0089		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
326	1304	9			CCV	FE				5 1933		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
327	1304	9			CCV	K				5 1121		1 0000	05/23/95	14:33	Rep	0.3	@ICP-QC			
328	1304	9			CCV	LA				5 1220		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
329	1304	9			CCV	LI				5 1443		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
330	1304	9			CCV	MG				5 0537		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
331	1304	9			CCV	MN				5 0950		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
332	1304	9			CCV	MO				5 1718		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
333	1304	9			CCV	NA				5 0870		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
334	1304	9			CCV	NI				5 2646		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
335	1304	9			CCV	N				5 1673		1 0000	05/23/95	14:33	Rep	0.02	@ICP-QC			
336	1304	9			CCV	P				5 1478		1 0000	05/23/95	14:33	Rep	0.2	@ICP-QC			
337	1304	9			CCV	PB				5 1721		1 0000	05/23/95	14:33	Rep	0.2	@ICP-QC			
338	1304	9			CCV	S				5 1467		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
339	1304	9			CCV	SB				4 8923		1 0000	05/23/95	14:33	Rep	0.2	@ICP-QC			
340	1304	9			CCV	SE				5 1736		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
341	1304	9			CCV	SI				4 9443		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
342	1304	9			CCV	SM				5 1499		1 0000	05/23/95	14:33	Rep	0.1	@ICP-QC			
343	1304	9			CCV	SR				5 0266		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
344	1304	9			CCV	TH				-0 0051		1 0000	05/23/95	14:33	Rep	0	@ICP-QC			
345	1304	9			CCV	TI				4 9806		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
346	1304	9			CCV	TL				5 0482		1 0000	05/23/95	14:33	Rep	0.2	@ICP-QC			
347	1304	9			CCV	U				10 1543		1 0000	05/23/95	14:33	Rep	0.4	@ICP-QC			
348	1304	9			CCV	V				4 9607		1 0000	05/23/95	14:33	Rep	0.05	@ICP-QC			
349	1304	9			CCV	Y				0 0126		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
350	1304	9			CCV	ZN				5 1893		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
351	1304	9			CCV	ZR				5 0917		1 0000	05/23/95	14:33	Rep	0.01	@ICP-QC			
352	1304	10			CCB	AG				-0 0038		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
353	1304	10			CCB	AL				-0 0031		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
354	1304	10			CCB	AS				-0 0205		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
355	1304	10			CCB	B				-0 0010		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
356	1304	10			CCB	BA				0 0000		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
357	1304	10			CCB	BE				-0 0001		1 0000	05/23/95	14:36	Rep	0.005	@ICP-QC			
358	1304	10			CCB	BI				-0 0068		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
359	1304	10			CCB	CA				-0 0026		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
360	1304	10			CCB	CD				-0 0008		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
361	1304	10			CCB	CE				-0 0018		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
362	1304	10			CCB	CO				-0 0011		1 0000	05/23/95	14:36	Rep	0.02	@ICP-QC			
363	1304	10			CCB	CR				0 0003		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
364	1304	10			CCB	CU				-0 0014		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
365	1304	10			CCB	EU				-0 0001		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
366	1304	10			CCB	FE				-0 0063		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
367	1304	10			CCB	K				0 0021		1 0000	05/23/95	14:36	Rep	0.3	@ICP-QC			
368	1304	10			CCB	LA				0 0007		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
369	1304	10			CCB	LI				0 0002		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
370	1304	10			CCB	MG				-0 0099		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
371	1304	10			CCB	MN				-0 0001		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
372	1304	10			CCB	MO				0 0006		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
373	1304	10			CCB	NA				0 0050		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
374	1304	10			CCB	NI				-0 0017		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
375	1304	10			CCB	N				-0 0045		1 0000	05/23/95	14:36	Rep	0.02	@ICP-QC			
376	1304	10			CCB	P				-0 0213		1 0000	05/23/95	14:36	Rep	0.2	@ICP-QC			
377	1304	10			CCB	PB				-0 0191		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
378	1304	10			CCB	S				0 0103		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
379	1304	10			CCB	SB				0 0075		1 0000	05/23/95	14:36	Rep	0.2	@ICP-QC			
380	1304	10			CCB	SE				-0 0114		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
381	1304	10			CCB	SI				-0 0021		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
382	1304	10			CCB	SM				-0 0007		1 0000	05/23/95	14:36	Rep	0.1	@ICP-QC			
383	1304	10			CCB	SR				0 0002		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
384	1304	10			CCB	TH				0 0021		1 0000	05/23/95	14:36	Rep	0	@ICP-QC			
385	1304	10			CCB	TI				-0 0002		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
386	1304	10			CCB	TL				-0 0102		1 0000	05/23/95	14:36	Rep	0.2	@ICP-QC			
387	1304	10			CCB	U				-0 0099		1 0000	05/23/95	14:36	Rep	0.4	@ICP-QC			
388	1304	10			CCB	V				-0 0013		1 0000	05/23/95	14:36	Rep	0.05	@ICP-QC			
389	1304	10			CCB	Y				-0 0002		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
390	1304	10			CCB	ZN				-0 0037		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
391	1304	10			CCB	ZR				-0 0002		1 0000	05/23/95	14:36	Rep	0.01	@ICP-QC			
392	1304	11	SI9570007613			AG-F-01			<	46 0100		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
393	1304	11	SI9570007613			AL-F-01				1227 0878		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
394	1304	11	SI9570007613			AS-F-01			<	230 0500		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
395	1304	11	SI9570007613			B-F-01			<	230 0500		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
396	1304	11	SI9570007613			BA-F-01			<	230 0500		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
397	1304	11	SI9570007613			BE-F-01			<	23 0050		4501 0000	05/23/95	14:43	Rep	0.005	@ICP-F01			
398	1304	11	SI9570007613			BI-F-01			<	460 1000		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
399	1304	11	SI9570007613			CA-F-01				2515 0327		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
400	1304	11	SI9570007613			CD-F-01			<	46 0100		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
401	1304	11	SI9570007613			CE-F-01			<	460 1000		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
402	1304	11	SI9570007613			CO-F-01			<	92 2200		4501 0000	05/23/95	14:43	Rep	0.02	@ICP-F01			
403	1304	11	SI9570007613			CR-F-01				132 5406		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
404	1304	11	SI9570007613			CU-F-01			<	46 0100		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
405	1304	11	SI9570007613			FE-F-01				19691 0459		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
406	1304	11	SI9570007613			K-F-01				4967381 5000		4501 0000	05/23/95	14:43	Rep	0.3	@ICP-F01			
407	1304	11	SI9570007613			LA-F-01			<	230 0500		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
408	1304	11	SI9570007613			LI-F-01			<	46 0100		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
409	1304	11	SI9570007613			MG-F-01				545 2343		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
410	1304	11	SI9570007613			MN-F-01				129 1622		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
411	1304	11	SI9570007613			MO-F-01			<	230 0500		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
412	1304	11	SI9570007613			NA-F-01				113595 8828		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
413	1304	11	SI9570007613			NI-F-01			<	460 1000		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
414	1304	11	SI9570007613			N-F-01				4591 4780		4501 0000	05/23/95	14:43	Rep	0.02	@ICP-F01			
415	1304	11	SI9570007613			P-F-01				23045 9238		4501 0000	05/23/95	14:43	Rep	0.2	@ICP-F01			
416	1304	11	SI9570007613			PB-F-01			<	460 1000		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
417	1304	11	SI9570007613			S-F-01				6629 5239		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
418	1304	11	SI9570007613			SB-F-01			<	920 2000		4501 0000	05/23/95	14:43	Rep	0.2	@ICP-F01			
419	1304	11	SI9570007613			SE-F-01			<	460 1000		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
420	1304	11	SI9570007613			SI-F-01				455 5677		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
421	1304	11	SI9570007613			SM-F-01			<	460 1000		4501 0000	05/23/95	14:43	Rep	0.1	@ICP-F01			
422	1304	11	SI9570007613			SR-F-01				473 2050		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
423	1304	11	SI9570007613			TH-F-01				60 9888		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
424	1304	11	SI9570007613			TL-F-01			<	920 2000		4501 0000	05/23/95	14:43	Rep	0.2	@ICP-F01			
425	1304	11	SI9570007613			U-F-01			<	10305 5547		4501 0000	05/23/95	14:43	Rep	0.4	@ICP-F01			
426	1304	11	SI9570007613			V-F-01				230 0500		4501 0000	05/23/95	14:43	Rep	0.05	@ICP-F01			
427	1304	11	SI9570007613			ZN-F-01				110 4295		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
428	1304	11	SI9570007613			ZR-F-01			<	46 0100		4501 0000	05/23/95	14:43	Rep	0.01	@ICP-F01			
429	1304	12	SI9570007613	DUP		AG-F-01		46 0100		447 3300		4733 0000	05/23/95	14:47	Rep	0.01	@ICP-F01			
430	1304	12	SI9570007613	DUP		AL-F-01		1227 0878		1231 3878		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
431	1304	12	SI9570007613	DUP		AS-F-01		<230 0500		<236 6500		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
432	1304	12	SI9570007613	DUP		B-F-01		<230 0500		<236 6500		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
433	1304	12	SI9570007613	DUP		BA-F-01		<230 0500		<236 6500		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
434	1304	12	SI9570007613	DUP		BE-F-01		23 0050		<23 6650		4733 0000	05/23/95	14:47	Rep	0.005	@ICP-F01			
435	1304	12	SI9570007613	DUP		BI-F-01		<460 1000		1473 3000		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
436	1304	12	SI9570007613	DUP		CA-F-01		2515 0327		2545 9549		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
437	1304	12	SI9570007613	DUP		CD-F-01		<46 0100		447 3300		4733 0000	05/23/95	14:47	Rep	0.01	@ICP-F01			
438	1304	12	SI9570007613	DUP		CE-F-01		<460 1000		<473 3000		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
439	1304	12	SI9570007613	DUP		CO-F-01		<92 2200		<94 6600		4733 0000	05/23/95	14:47	Rep	0.02	@ICP-F01			
440	1304	12	SI9570007613	DUP		CR-F-01		132 5406		118 9643		4733 0000	05/23/95	14:47	Rep	0.01	@ICP-F01			
441	1304	12	SI9570007613	DUP		CU-F-01		<46 0100		447 3300		4733 0000	05/23/95	14:47	Rep	0.01	@ICP-F01			
442	1304	12	SI9570007613	DUP		FE-F-01		19691 0459		19789 8086		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
443	1304	12	SI9570007613	DUP		K-F-01		4967381 5000		5552214 0000		4733 0000	05/23/95	14:47	Rep	0.3	@ICP-F01			
444	1304	12	SI9570007613	DUP		LA-F-01		<230 0500		<236 6500		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
445	1304	12	SI9570007613	DUP		LI-F-01		<46 0100		447 3300		4733 0000	05/23/95	14:47	Rep	0.01	@ICP-F01			
446	1304	12	SI9570007613	DUP		MG-F-01		545 2343		624 5395		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
447	1304	12	SI9570007613	DUP		MN-F-01		129 1622		136 3015		4733 0000	05/23/95	14:47	Rep	0.01	@ICP-F01			
448	1304	12	SI9570007613	DUP		MO-F-01		<230 0500		<236 6500		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
449	1304	12	SI9570007613	DUP		NA-F-01		113595 8828		112331 1494		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
450	1304	12	SI9570007613	DUP		NI-F-01		<460 1000		<473 3000		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
451	1304	12	SI9570007613	DUP		N-F-01		4591 4780		5832 7339		4733 0000	05/23/95	14:47	Rep	0.02	@ICP-F01			
452	1304	12	SI9570007613	DUP		P-F-01		23045 9238		22906 0566		4733 0000	05/23/95	14:47	Rep	0.2	@ICP-F01			
453	1304	12	SI9570007613	DUP		PB-F-01		<460 1000		<473 3000		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
454	1304	12	SI9570007613	DUP		S-F-01		6629 5239		6534 9200		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
455	1304	12	SI9570007613	DUP		SB-F-01		<920 2000		<946 6600		4733 0000	05/23/95	14:47	Rep	0.2	@ICP-F01			
456	1304	12	SI9570007613	DUP		SE-F-01		<460 1000		<473 3000		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
457	1304	12	SI9570007613	DUP		SI-F-01		455 5677		579 1136		4733 0000	05/23/95	14:47	Rep	0.05	@ICP-F01			
458	1304	12	SI9570007613	DUP		SM-F-01		<460 1000		<473 3000		4733 0000	05/23/95	14:47	Rep	0.1	@ICP-F01			
459	1304	12	SI9570007613	DUP		SR-F-01		473 2050		471 6126		4733 0000	05/23/95	14:47	Rep	0.01	@ICP-F01			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
460	1304		12 SI971000763		DUP	TL-F-01		60 9988		64 8817		4733 0000	05/23/95	14:47	Bq	0.01	@ICP-F01			
461	1304		12 SI971000763		DUP	TL-F-01		4929 2000		4946 4000		4733 0000	05/23/95	14:47	Bq	0.2	@ICP-F01			
462	1304		12 SI971000763		DUP	U-F-01		10329 5547		9985 5664		4733 0000	05/23/95	14:47	Bq	0.4	@ICP-F01			
463	1304		12 SI971000763		DUP	V-F-01		4290 8500		4296 8500		4733 0000	05/23/95	14:47	Bq	0.05	@ICP-F01			
464	1304		12 SI971000763		DUP	ZN-F-01		110 4295		102 3613		4733 0000	05/23/95	14:47	Bq	0.01	@ICP-F01			
465	1304		12 SI971000763		DUP	ZR-F-01		446 0100		447 3300		4733 0000	05/23/95	14:47	Bq	0.01	@ICP-F01			
466	1304		13 SI971000763_A			AG-F-01		1000 00		1122 5511		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
467	1304		13 SI971000763_A			AL-F-01		5000 00		4374 8238		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
468	1304		13 SI971000763_A			AS-F-01		5000 00		4655 5547		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
469	1304		13 SI971000763_A			B-F-01		5000 00		4419 1934		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
470	1304		13 SI971000763_A			BA-F-01		5000 00		4259 5898		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
471	1304		13 SI971000763_A			BE-F-01		5000 00		4508 5898		4801 0000	05/23/95	14:51	Bq	0.005	@ICP-F01			
472	1304		13 SI971000763_A			BI-F-01		5000 00		1273 2676		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
473	1304		13 SI971000763_A			CA-F-01		5000 00		4654 8775		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
474	1304		13 SI971000763_A			CD-F-01		5000 00		4557 1416		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
475	1304		13 SI971000763_A			CE-F-01		5000 00		4372 4502		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
476	1304		13 SI971000763_A			CO-F-01		5000 00		4571 9297		4801 0000	05/23/95	14:51	Bq	0.02	@ICP-F01			
477	1304		13 SI971000763_A			CR-F-01		5000 00		4598 4529		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
478	1304		13 SI971000763_A			CU-F-01		5000 00		4372 9751		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
479	1304		13 SI971000763_A			FE-F-01		5000 00		4462 3822		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
480	1304		13 SI971000763_A			K-F-01		0 0		4854362 5000		4801 0000	05/23/95	14:51	Bq	0.3	@ICP-F01			
481	1304		13 SI971000763_A			LA-F-01		5000 00		4365 5815		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
482	1304		13 SI971000763_A			LI-F-01		5000 00		4249 5896		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
483	1304		13 SI971000763_A			MG-F-01		5000 00		4217 1361		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
484	1304		13 SI971000763_A			MN-F-01		5000 00		4361 9599		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
485	1304		13 SI971000763_A			MO-F-01		5000 00		4593 0352		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
486	1304		13 SI971000763_A			NA-F-01		0 0		115404 7856		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
487	1304		13 SI971000763_A			ND-F-01		5000 00		4483 0869		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
488	1304		13 SI971000763_A			NI-F-01		5000 00		4811 7525		4801 0000	05/23/95	14:51	Bq	0.02	@ICP-F01			
489	1304		13 SI971000763_A			P-F-01		5000 00		4258 9512		4801 0000	05/23/95	14:51	Bq	0.2	@ICP-F01			
490	1304		13 SI971000763_A			PB-F-01		5000 00		4933 4668		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
491	1304		13 SI971000763_A			S-F-01		5000 00		4474 3072		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
492	1304		13 SI971000763_A			SB-F-01		5000 00		4351 1396		4801 0000	05/23/95	14:51	Bq	0.2	@ICP-F01			
493	1304		13 SI971000763_A			SE-F-01		5000 00		3605 7134		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
494	1304		13 SI971000763_A			SI-F-01		5000 00		4509 594		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
495	1304		13 SI971000763_A			SM-F-01		5000 00		4425 1075		4801 0000	05/23/95	14:51	Bq	0.1	@ICP-F01			
496	1304		13 SI971000763_A			SR-F-01		5000 00		4299 4259		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
497	1304		13 SI971000763_A			TH-F-01		5000 00		4337 5408		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
498	1304		13 SI971000763_A			TL-F-01		5000 00		4207 8238		4801 0000	05/23/95	14:51	Bq	0.2	@ICP-F01			
499	1304		13 SI971000763_A			U-F-01		10000 00		9641 272		4801 0000	05/23/95	14:51	Bq	0.4	@ICP-F01			
500	1304		13 SI971000763_A			V-F-01		5000 00		4529 8218		4801 0000	05/23/95	14:51	Bq	0.05	@ICP-F01			
501	1304		13 SI971000763_A			ZN-F-01		5000 00		4623 4943		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
502	1304		13 SI971000763_A			ZR-F-01		5000 00		4418 5171		4801 0000	05/23/95	14:51	Bq	0.01	@ICP-F01			
503	1304		14			AG				-0 0027		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
504	1304		14			AL				247 5530		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
505	1304		14			AS				-0 0768		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
506	1304		14			B				0 0064		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
507	1304		14			BA				0 0033		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
508	1304		14			BE				-0 0001		1 0000	05/23/95	14:54	Bq	0.005	@ICP-QC			
509	1304		14			BI				0 0727		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
510	1304		14			CA				253 7706		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
511	1304		14			CD				-0 0014		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
512	1304		14			CE				0 0227		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
513	1304		14			CO				-0 0007		1 0000	05/23/95	14:54	Bq	0.02	@ICP-QC			
514	1304		14			CR				-0 0049		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
515	1304		14			CU				-0 0078		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
516	1304		14			FE				0 9080		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
517	1304		14			K				95 5618		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
518	1304		14			LA				0 3942		1 0000	05/23/95	14:54	Bq	0.2	@ICP-QC			
519	1304		14			LI				-0 0011		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
520	1304		14			MG				0 0039		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
521	1304		14			MN				253 8833		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
522	1304		14			MN				0 0002		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
523	1304		14			MO				-0 0119		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
524	1304		14			NA				194 9610		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
525	1304		14			NI				0 0202		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
526	1304		14			P				-0 0175		1 0000	05/23/95	14:54	Bq	0.02	@ICP-QC			
527	1304		14			P				0 1173		1 0000	05/23/95	14:54	Bq	0.2	@ICP-QC			
528	1304		14			PB				0 0689		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
529	1304		14			S				-0 0061		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
530	1304		14			SB				0 0035		1 0000	05/23/95	14:54	Bq	0.2	@ICP-QC			
531	1304		14			SE				0 1228		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
532	1304		14			SI				0 0335		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
533	1304		14			SM				0 0057		1 0000	05/23/95	14:54	Bq	0.1	@ICP-QC			
534	1304		14			SR				0 0014		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
535	1304		14			TH				-0 0195		1 0000	05/23/95	14:54	Bq	0	@ICP-QC			
536	1304		14			TL				0 0014		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
537	1304		14			TL				0 0501		1 0000	05/23/95	14:54	Bq	0.2	@ICP-QC			
538	1304		14			U				0 2186		1 0000	05/23/95	14:54	Bq	0.4	@ICP-QC			
539	1304		14			V				0 0026		1 0000	05/23/95	14:54	Bq	0.05	@ICP-QC			
540	1304		14			Y				0 0109		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
541	1304		14			ZN				-0 0037		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
542	1304		14			ZR				-0 0003		1 0000	05/23/95	14:54	Bq	0.01	@ICP-QC			
543	1304		15			AG				0 9709		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
544	1304		15			AL				248 8447		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
545	1304		15			AS				-0 0532		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
546	1304		15			B				-0 0032		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
547	1304		15			BA				0 4700		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
548	1304		15			BE				0 4853		1 0000	05/23/95	14:58	Bq	0.005	@ICP-QC			
549	1304		15			BI				0 0370		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
550	1304		15			CA				251 9830		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
551	1304		15			CD				0 9567		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
552	1304		15			CE				0 0120		1 0000	05/23/95	14:56	Bq	0.1	@ICP-QC			
553	1304		15			CO				0 4757		1 0000	05/23/95	14:58	Bq	0.02	@ICP-QC			
554	1304		15			CR				0 4759		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
555	1304		15			CU				0 4859		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
556	1304		15			FE				0 0162		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
557	1304		15			K				94 4402		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
558	1304		15			LA				0 0852		1 0000	05/23/95	14:58	Bq	0.2	@ICP-QC			
559	1304		15			LI				-0 0030		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
560	1304		15			MG				0 9945		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
561	1304		15			MN				251 1156		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
562	1304		15			MO				0 4504		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
563	1304		15			NA				-0 0139		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
564	1304		15			NA				194 9660		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
565	1304		15			NI				0 0186		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
566	1304		15			P				0 9459		1 0000	05/23/95	14:58	Bq	0.02	@ICP-QC			
567	1304		15			PB				0 1186		1 0000	05/23/95	14:58	Bq	0.2	@ICP-QC			
568	1304		15			S				1 0117		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
569	1304		15			SB				-0 0099		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
570	1304		15			SB				0 0049		1 0000	05/23/95	14:58	Bq	0.2	@ICP-QC			
571	1304		15			SE				0 0707		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
572	1304		15			SI				0 0308		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
573	1304		15			SM				-0 0011		1 0000	05/23/95	14:58	Bq	0.1	@ICP-QC			
574	1304		15			SR				0 0014		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
575	1304		15			TH				-0 0220		1 0000	05/23/95	14:58	Bq	0	@ICP-QC			
576	1304		15			TL				0 0000		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
577	1304		15			TL				0 0415		1 0000	05/23/95	14:58	Bq	0.2	@ICP-QC			
578	1304		15			U				0 2018		1 0000	05/23/95	14:58	Bq	0.4	@ICP-QC			
579	1304		15			V				0 4768		1 0000	05/23/95	14:58	Bq	0.05	@ICP-QC			
580	1304		15			Y				0 0105		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
581	1304		15			ZN				0 9844		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
582	1304		15			ZR				-0 0001		1 0000	05/23/95	14:58	Bq	0.01	@ICP-QC			
583	1304		16			AG				5 0653		1 0000	05/23/95	15:02	Bq	0.01	@ICP-QC			
584	1304		16			AL				5 0609		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
585	1304		16			AS				5 2054		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
586	1304		16			B				5 0695		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
587	1304		16			BA				4 9998		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
588	1304		16			BE				5 2874		1 0000	05/23/95	15:02	Bq	0.005	@ICP-QC			
589	1304		16			BI				5 1328		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
590	1304		16			CA				5 2750		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
591	1304		16			CD				5 2324		1 0000	05/23/95	15:02	Bq	0.01	@ICP-QC			
592	1304		16			CE				5 1918		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
593	1304		16			CO				5 2216		1 0000	05/23/95	15:02	Bq	0.02	@ICP-QC			
594	1304		16			CR				5 2425		1 0000	05/23/95	15:02	Bq	0.01	@ICP-QC			
595	1304		16			CU				5 0823		1 0000	05/23/95	15:02	Bq	0.01	@ICP-QC			
596	1304		16			EU				0 0102		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
597	1304		16			FE				5 2004		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
598	1304		16			K				4 9959		1 0000	05/23/95	15:02	Bq	0.3	@ICP-QC			
599	1304		16			LA				5 0921		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
600	1304		16			LI				5 0105		1 0000	05/23/95	15:02	Bq	0.01	@ICP-QC			
601	1304		16			MG				5 0246		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
602	1304		16			MN				5 1016		1 0000	05/23/95	15:02	Bq	0.01	@ICP-QC			
603	1304		16			MO				5 2064		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
604	1304		16			NA				4 9498		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
605	1304		16			NI				5 2207		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
606	1304		16			P				5 2062		1 0000	05/23/95	15:02	Bq	0.02	@ICP-QC			
607	1304		16			PB				5 1938		1 0000	05/23/95	15:02	Bq	0.2	@ICP-QC			
608	1304		16			S				5 2225		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
609	1304		16			SB				5 1310		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			
610	1304		16			SE				4 9127		1 0000	05/23/95	15:02	Bq	0.2	@ICP-QC			
611	1304		16			SI				5 2301		1 0000	05/23/95	15:02	Bq	0.1	@ICP-QC			
612	1304		16			SM				4 9418		1 0000	05/23/95	15:02	Bq	0.05	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
613	1304	16			CCV	SM				5.0887			1.0000	05/23/95	15:02	mg	0.1	@ICP-QC			
614	1304	16			CCV	SB				5.0068			1.0000	05/23/95	15:02	mg	0.01	@ICP-QC			
615	1304	16			CCV	TH				-0.0657			1.0000	05/23/95	15:02	mg	0	@ICP-QC			
616	1304	16			CCV	TI				4.9854			1.0000	05/23/95	15:02	mg	0.01	@ICP-QC			
617	1304	16			CCV	TL				5.0813			1.0000	05/23/95	15:02	mg	0.2	@ICP-QC			
618	1304	16			CCV	U				10.0730			1.0000	05/23/95	15:02	mg	0.4	@ICP-QC			
619	1304	16			CCV	V				4.9834			1.0000	05/23/95	15:02	mg	0.05	@ICP-QC			
620	1304	16			CCV	Y				0.0129			1.0000	05/23/95	15:02	mg	0.01	@ICP-QC			
621	1304	16			CCV	ZN				5.2267			1.0000	05/23/95	15:02	mg	0.01	@ICP-QC			
622	1304	16			CCV	ZR				5.0928			1.0000	05/23/95	15:02	mg	0.01	@ICP-QC			
623	1304	17			CCB	AG				-0.0053			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
624	1304	17			CCB	AL				-0.0101			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
625	1304	17			CCB	AS				-0.0129			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
626	1304	17			CCB	B				0.0021			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
627	1304	17			CCB	BA				0.0001			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
628	1304	17			CCB	BE				-0.0003			1.0000	05/23/95	15:06	mg	0.005	@ICP-QC			
629	1304	17			CCB	BI				-0.0093			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
630	1304	17			CCB	CA				0.0116			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
631	1304	17			CCB	CD				-0.0009			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
632	1304	17			CCB	CE				0.0028			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
633	1304	17			CCB	CO				-0.0040			1.0000	05/23/95	15:06	mg	0.02	@ICP-QC			
634	1304	17			CCB	CR				-0.0005			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
635	1304	17			CCB	CU				-0.0019			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
636	1304	17			CCB	EU				0.0019			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
637	1304	17			CCB	FE				0.0022			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
638	1304	17			CCB	K				0.1789			1.0000	05/23/95	15:06	mg	0.2	@ICP-QC			
639	1304	17			CCB	LA				0.0013			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
640	1304	17			CCB	LI				0.0015			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
641	1304	17			CCB	MG				-0.0046			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
642	1304	17			CCB	MN				0.0003			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
643	1304	17			CCB	MO				0.0026			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
644	1304	17			CCB	NA				0.0122			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
645	1304	17			CCB	NI				-0.0010			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
646	1304	17			CCB	P				0.0033			1.0000	05/23/95	15:06	mg	0.02	@ICP-QC			
647	1304	17			CCB	PB				-0.0073			1.0000	05/23/95	15:06	mg	0.2	@ICP-QC			
648	1304	17			CCB	S				0.0082			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
649	1304	17			CCB	SB				-0.0001			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
650	1304	17			CCB	SE				0.0083			1.0000	05/23/95	15:06	mg	0.2	@ICP-QC			
651	1304	17			CCB	SI				0.0243			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
652	1304	17			CCB	SN				0.0056			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
653	1304	17			CCB	SR				0.0176			1.0000	05/23/95	15:06	mg	0.1	@ICP-QC			
654	1304	17			CCB	TH				0.0003			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
655	1304	17			CCB	TI				-0.0026			1.0000	05/23/95	15:06	mg	0	@ICP-QC			
656	1304	17			CCB	TL				-0.0002			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
657	1304	17			CCB	U				-0.0023			1.0000	05/23/95	15:06	mg	0.2	@ICP-QC			
658	1304	17			CCB	V				0.0710			1.0000	05/23/95	15:06	mg	0.4	@ICP-QC			
659	1304	17			CCB	Y				0.0030			1.0000	05/23/95	15:06	mg	0.05	@ICP-QC			
660	1304	17			CCB	ZN				0.0009			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
661	1304	17			CCB	ZR				-0.0010			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			
662	1304	18			CCB					0.0039			1.0000	05/23/95	15:06	mg	0.01	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

8 of 24/96

502

FILE # 09505244

05/03/95 09:42
A-0004-1

WHC-SD-WM-DP-154, REV. 0

LABCORE Data Entry Template for Worklist# 1305

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 5-24-95 **Book#** 41B483

Method: LA-505-~~151~~ 161 5-24-95 Rev/Mod A-1

Worklist Comment: ICP BX-109 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T000766	0	F	@ICP-F01	SOLID	95000057	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
7	DUP	S95T000766	0	F	@ICP-F01	SOLID		
8	SPK	S95T000766	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T000769	0	F	@ICP-F01	SOLID	95000057	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
12	DUP	S95T000769	0	F	@ICP-F01	SOLID		

Data Entry Comments:

S95T000766 Pagila % Rec = 33200 - 26810 / 5354 x100 = 12%3 % SP 05/26/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1305

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T000769	0	F	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 1305

Analyst Signature: [signature] Date: 5-24-95

Analyst Signature Date

D.F.

PREPBLKTSA 1mL - 2mL 10

S95T000766 .4635g in 250mL - 1mL - 2mL 5394

5X 2mL - 2mL 26969

S95T000766_D .4994g in 250mL - 1mL - 2mL 5006

S95T000766_A .4635g in 250mL - 1mL - 2mL - 2mL 5394

S95T000769 .5003g in 250mL - 1mL - 2mL 4997

5X 2mL - 4mL 24985

S95T000769_D .4979g in 250mL - 1mL - 2mL 5072

S95T000769_A .5003g in 250mL - 1mL - 1mL - 2mL 4997

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Analysis Report Summary Wed 05-24-95 02:20:23 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950524A	ICP2	05/24/95	12:53	BJG	Q	CONC
2	ICB	950524A	ICP2	05/24/95	12:56	BJG	Q	CONC
3	ICSA	950524A	ICP2	05/24/95	13:00	BJG	Q	CONC
4	ICSAB	950524A	ICP2	05/24/95	13:04	BJG	Q	CONC
5	PREPBLKTJA	950524A	ICP2	05/24/95	13:08	BJG	S	CONC
6	S95T000766_L	950524A	ICP2	05/24/95	13:12	BJG	S	CONC
7	S95T000766	950524A	ICP2	05/24/95	13:15	BJG	S	CONC
8	S95T000766_D	950524A	ICP2	05/24/95	13:19	BJG	S	CONC
9	S95T000766_A	950524A	ICP2	05/24/95	13:23	BJG	S	CONC
10	CCV	950524A	ICP2	05/24/95	13:40	BJG	Q	CONC
11	CCB	950524A	ICP2	05/24/95	13:44	BJG	Q	CONC
12	S95T000769_L	950524A	ICP2	05/24/95	13:48	BJG	S	CONC
13	S95T000769	950524A	ICP2	05/24/95	13:52	BJG	S	CONC
14	S95T000769_D	950524A	ICP2	05/24/95	13:56	BJG	S	CONC
15	S95T000769_A	950524A	ICP2	05/24/95	14:00	BJG	S	CONC
16	ICSA	950524A	ICP2	05/24/95	14:04	BJG	Q	CONC
17	ICSAB	950524A	ICP2	05/24/95	14:07	BJG	Q	CONC
18	CCV_1	950524A	ICP2	05/24/95	14:12	BJG	Q	CONC
19	CCB_1	950524A	ICP2	05/24/95	14:16	BJG	Q	CONC

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

5-24-95
BJG
DX-105 FUSION
S95T000766, 769
1mL-5mL, 5%

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 505 TO 513.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.928	5.036	5.145	5.017	4.997	5.232
2	ICB	-.0008	.0023	.0101	.0034	-.0000	.0001
3	ICSA	-.0002	240.9	-.0545	-.0046	.0035	.0001
4	ICSAB	.9486	241.2	-.0077	.0094	.4611	.4728
5	PREPBLKTJA	-.0038	.3089	-.0384	-.0056	.0045	.0019
6	S95T000766_L	-8.119	2510.	-204.1	-71.28	57.41	.0288
7	S95T000766	-5.396	2746.	-83.00	15.93	50.23	.8024
8	S95T000766_D	3.652	2981.	30.34	25.74	51.73	1.291
9	S95T000766_A	4152.	7883.	5667.	5173.	4934.	5352.
10	CCV	5.053	5.109	5.210	5.083	5.079	5.260
11	CCB	.0001	.0041	-.0062	-.0005	.0002	.0001
12	S95T000769_L	-32.03	518.4	-299.2	-123.1	53.39	.0140
13	S95T000769	.7711	490.0	-94.97	2.847	46.07	.9099
14	S95T000769_D	-5.126	486.9	-34.60	-4.960	44.57	1.851
15	S95T000769_A	3703.	5296.	5038.	4755.	4646.	4864.
16	ICSA	.0017	247.0	-.0599	-.0058	.0038	.0001
17	ICSAB	.9646	246.3	-.0807	-.0021	.4726	.4822
18	CCV_1	5.089	5.137	5.210	5.114	5.118	5.306
19	CCB_1	.0001	-.0014	-.0108	-.0030	.0001	-.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.086	5.020	5.081	5.075	5.068	5.091
2	ICB	.0422	-.0087	-.0006	-.0066	-.0011	.0004
3	ICSA	.0779	241.0	-.0001	.0027	-.0018	-.0059
4	ICSAB	.0537	244.5	.9276	-.0036	.4596	.4602
5	PREPBLKTJA	-10.18	.5395	-.0017	-.0738	-.0045	.0047
6	S95T000766_L	-5172.	3914.	-30.83	-125.7	-3.694	109.4
7	S95T000766	-5267.	4672.	-1.463	-28.96	5.103	121.0
8	S95T000766_D	-3844.	4868.	-1.688	26.55	-7.139	126.5
9	S95T000766_A	13.06	10490.	5500.	5067.	5402.	5632.
10	CCV	5.158	5.137	5.158	5.170	5.136	5.163
11	CCB	-.0074	-.0063	-.0001	.0076	-.0004	-.0003
12	S95T000769_L	-5893.	388.1	-11.40	61.42	-9.887	169.3
13	S95T000769	-5290.	1159.	-3.596	23.80	-9.048	142.5
14	S95T000769_D	-3709.	1127.	-.6343	53.50	4.488	137.5
15	S95T000769_A	-422.9	6064.	4887.	4794.	4829.	5059.
16	ICSA	.0550	248.9	-.0014	.0230	.0009	-.0068
17	ICSAB	.0398	245.8	.9431	.0234	.4655	.4673
18	CCV_1	5.144	5.207	5.181	5.215	5.172	5.206
19	CCB_1	.0073	-.0013	-.0013	.0003	-.0009	-.0004

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.069	.0104	5.099	4.990	5.091	5.126
2	ICB	-.0006	-.0010	-.0027	.0610	-.0007	-.0007
3	ICSA	-.0069	.0383	90.42	.0037	-.0036	.0015
4	ICSAB	.4774	.0360	90.95	.1074	-.0041	.9793
5	PREPBLKTJA	.0218	.0040	.0475	14610.	-.0092	-.0026
6	S95T000766_L	34.33	7.210	18660.	8439e3	-15.12	20.68
7	S95T000766	32.06	12.95	18470.	8062e3	4.575	21.14

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	Cu	Eu	Fe	K	La	Li
8	S95T000766_D	33.96	13.41	19520.	6154e3	12.50	23.89
9	S95T000766_A	5098.	27.97	24320.	8085e3	5071.	4801.
10	CCV	5.133	.0103	5.170	5.278	5.146	5.215
11	CCB	.0000	-.0009	-.0019	-.0083	.0014	-.0004
12	S95T000769_L	50.44	-34.55	21570.	8169e3	13.82	-11.95
13	S95T000769	33.08	1.523	21240.	7805e3	14.64	9.561
14	S95T000769_D	36.13	-.0102	20970.	5742e3	16.88	9.705
15	S95T000769_A	4814.	10.52	25800.	7738e3	4762.	4750.
16	ICSA	-.0080	.0341	93.46	.2473	-.0015	.0018
17	ICSAB	.4870	.0412	92.66	.1651	-.0018	1.020
18	CCV_1	5.177	.0102	5.195	5.199	5.195	5.247
19	CCB_1	.0004	-.0003	-.0017	.1779	.0010	-.0005

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.021	4.978	5.090	5.042	5.224	5.068
2	ICB	-.0073	-.0002	.0002	-.0010	-.0014	-.0036
3	ICSA	246.3	-.0062	-.0130	190.5	.0160	-.0175
4	ICSAB	246.2	.4417	-.0137	189.7	.0130	.8852
5	PREPBLKTJA	.1908	.0394	.0051	5.520	-.0212	10.77
6	S95T000766_L	933.6	177.5	18.51	113600.	.6816	8585.
7	S95T000766	991.7	179.6	15.43	108500.	31.38	8790.
8	S95T000766_D	968.9	183.8	-6.446	110600.	13.41	8813.
9	S95T000766_A	5949.	5408.	5524.	113200.	5157.	14560.
10	CCV	5.081	5.061	5.135	5.142	5.289	5.143
11	CCB	-.0088	.0000	.0018	-.0021	-.0014	-.0007
12	S95T000769_L	314.6	102.2	6.334	117200.	11.79	7714.
13	S95T000769	370.4	108.9	7.165	113000.	5.069	7794.
14	S95T000769_D	338.0	100.1	-2.929	112300.	6.248	4974.
15	S95T000769_A	4992.	4793.	4932.	117800.	4874.	12150.
16	ICSA	255.1	-.0071	-.0123	197.3	.0145	-.0282
17	ICSAB	253.1	.4464	-.0151	197.6	.0178	.8994
18	CCV_1	5.113	5.076	5.173	5.149	5.346	5.195
19	CCB_1	-.0018	-.0001	-.0014	-.0018	.0009	-.0079

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.251	5.059	5.040	4.809	5.181	4.858
2	ICB	.0315	-.0125	-.0135	.0045	.0397	-.0067
3	ICSA	.0917	.0291	.0267	.0110	.1017	.0334
4	ICSAB	.1244	.9665	.0243	-.0022	.1189	.0383
5	PREPBLKTJA	.4802	.1459	.0791	-.0532	-2.553	.3928
6	S95T000766_L	27330.	357.4	6010.	-88.31	-1104.	362.2
7	S95T000766	26510.	582.6	6130.	-43.64	-1410.	661.5
8	S95T000766_D	27880.	626.9	6343.	1.969	-918.0	679.6
9	S95T000766_A	33200.	6146.	11720.	5162.	4097.	6133.
10	CCV	5.161	5.120	5.114	4.853	5.212	4.791
11	CCB	.0124	-.0096	-.0057	.0031	.0067	.0098
12	S95T000769_L	20250.	-64.62	6490.	-145.9	-2148.	483.5
13	S95T000769	20170.	495.5	6579.	-3.411	-1598.	771.3
14	S95T000769_D	19580.	456.6	6514.	16.31	-1096.	736.0
15	S95T000769_A	24720.	5357.	11510.	4724.	3382.	5539.

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	.0888	.0377	.0292	-.0034	.0617	.0357
17	ICSAB	.0742	.9587	.0092	-.0003	.0628	.0383
18	CCV_1	5.202	5.147	5.111	4.902	5.231	4.819
19	CCB_1	.0065	-.0186	-.0093	-.0107	-.0008	.0092

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.114	4.997	-.0083	4.928	4.941	10.09
2	ICB	-.0118	-.0001	.0020	-.0004	.0247	-.0313
3	ICSA	-.0150	-.0044	-.0183	.0010	.0296	.0877
4	ICSAB	-.0194	-.0045	-.0169	.0006	.0597	.0453
5	PREPBLKTJA	-.0123	.0020	.2373	.0128	.4310	-4.127
6	S95T000766_L	-62.70	516.4	67.55	69.27	277.0	6141.
7	S95T000766	53.94	498.9	110.9	106.4	89.90	6233.
8	S95T000766_D	74.56	516.8	102.5	117.1	59.45	7059.
9	S95T000766_A	5096.	5474.	135.4	5240.	5106.	16190.
10	CCV	5.163	5.049	-.0236	4.972	5.016	10.17
11	CCB	-.0071	.0000	-.0000	.0006	-.0063	-.0224
12	S95T000769_L	-227.1	695.6	170.2	21.02	-438.8	26470.
13	S95T000769	25.79	673.3	138.1	33.14	-84.67	26350.
14	S95T000769_D	22.05	659.7	133.9	34.72	65.38	26330.
15	S95T000769_A	4747.	5333.	87.21	4713.	4829.	35440.
16	ICSA	-.0107	-.0033	-.0071	.0013	.0283	.1425
17	ICSAB	-.0176	-.0033	-.0144	.0015	.0406	.1455
18	CCV_1	5.203	5.106	-.0290	5.012	5.067	10.25
19	CCB_1	-.0040	-.0000	.0010	.0006	-.0038	-.0105

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.887	.0119	5.059	5.018
2	ICB	-.0027	-.0006	.0012	-.0023
3	ICSA	-.0024	.0163	-.0243	-.0024
4	ICSAB	.4603	.0161	.9309	-.0026
5	PREPBLKTJA	.0032	-.0016	.0136	.0364
6	S95T000766_L	-5.515	10.57	268.3	5.752
7	S95T000766	19.59	14.37	167.5	13.66
8	S95T000766_D	22.61	15.30	122.5	11.63
9	S95T000766_A	5225.	29.59	5648.	5220.
10	CCV	4.921	.0124	5.132	5.059
11	CCB	-.0014	-.0002	.0008	.0000
12	S95T000769_L	-65.61	.0000	296.3	-33.65
13	S95T000769	12.04	15.67	127.4	23.23
14	S95T000769_D	11.32	15.51	186.0	-.2316
15	S95T000769_A	4699.	27.81	5065.	4772.
16	ICSA	-.0024	.0172	-.0274	-.0014
17	ICSAB	.4649	.0166	.9406	-.0024
18	CCV_1	4.965	.0125	5.169	5.103
19	CCB_1	-.0012	-.0002	-.0001	-.0001

WHC-SD-WM-DP-154, REV. 0

8 05/24/95

BEST AVAILABLE COPY

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1305	1			ICV	AG				4.9283		1.0000	05/24/95	12:53		0.01	@ICP-QC			
2	1305	1			ICV	AL				5.0363		1.0000	05/24/95	12:53		0.05	@ICP-QC			
3	1305	1			ICV	AS				5.1449		1.0000	05/24/95	12:53		0.05	@ICP-QC			
4	1305	1			ICV	B				5.0171		1.0000	05/24/95	12:53		0.05	@ICP-QC			
5	1305	1			ICV	BA				4.9965		1.0000	05/24/95	12:53		0.05	@ICP-QC			
6	1305	1			ICV	BE				5.2317		1.0000	05/24/95	12:53		0.005	@ICP-QC			
7	1305	1			ICV	BI				5.0850		1.0000	05/24/95	12:53		0.1	@ICP-QC			
8	1305	1			ICV	CA				5.0196		1.0000	05/24/95	12:53		0.1	@ICP-QC			
9	1305	1			ICV	CD				5.0814		1.0000	05/24/95	12:53		0.01	@ICP-QC			
10	1305	1			ICV	CE				5.0748		1.0000	05/24/95	12:53		0.1	@ICP-QC			
11	1305	1			ICV	CO				5.0877		1.0000	05/24/95	12:53		0.02	@ICP-QC			
12	1305	1			ICV	CR				5.0913		1.0000	05/24/95	12:53		0.01	@ICP-QC			
13	1305	1			ICV	CU				5.2688		1.0000	05/24/95	12:53		0.01	@ICP-QC			
14	1305	1			ICV	EU				0.1004		1.0000	05/24/95	12:53		0.05	@ICP-QC			
15	1305	1			ICV	FE				5.2987		1.0000	05/24/95	12:53		0.05	@ICP-QC			
16	1305	1			ICV	K				4.9899		1.0000	05/24/95	12:53		0.3	@ICP-QC			
17	1305	1			ICV	LA				5.0906		1.0000	05/24/95	12:53		0.05	@ICP-QC			
18	1305	1			ICV	LI				5.1257		1.0000	05/24/95	12:53		0.01	@ICP-QC			
19	1305	1			ICV	MG				5.0213		1.0000	05/24/95	12:53		0.1	@ICP-QC			
20	1305	1			ICV	MN				4.9761		1.0000	05/24/95	12:53		0.01	@ICP-QC			
21	1305	1			ICV	MO				5.0898		1.0000	05/24/95	12:53		0.05	@ICP-QC			
22	1305	1			ICV	NA				5.0417		1.0000	05/24/95	12:53		0.1	@ICP-QC			
23	1305	1			ICV	ND				5.2238		1.0000	05/24/95	12:53		0.1	@ICP-QC			
24	1305	1			ICV	NI				5.0678		1.0000	05/24/95	12:53		0.02	@ICP-QC			
25	1305	1			ICV	P				5.2507		1.0000	05/24/95	12:53		0.2	@ICP-QC			
26	1305	1			ICV	PB				5.0567		1.0000	05/24/95	12:53		0.1	@ICP-QC			
27	1305	1			ICV	S				5.0396		1.0000	05/24/95	12:53		0.05	@ICP-QC			
28	1305	1			ICV	SB				4.9080		1.0000	05/24/95	12:53		0.2	@ICP-QC			
29	1305	1			ICV	SE				5.1813		1.0000	05/24/95	12:53		0.1	@ICP-QC			
30	1305	1			ICV	SI				4.9579		1.0000	05/24/95	12:53		0.05	@ICP-QC			
31	1305	1			ICV	SM				5.1140		1.0000	05/24/95	12:53		0.1	@ICP-QC			
32	1305	1			ICV	SR				4.9966		1.0000	05/24/95	12:53		0.01	@ICP-QC			
33	1305	1			ICV	TH				-0.0083		1.0000	05/24/95	12:53		0	@ICP-QC			
34	1305	1			ICV	TI				4.9277		1.0000	05/24/95	12:53		0.01	@ICP-QC			
35	1305	1			ICV	TL				4.9412		1.0000	05/24/95	12:53		0.2	@ICP-QC			
36	1305	1			ICV	U				10.0900		1.0000	05/24/95	12:53		0.4	@ICP-QC			
37	1305	1			ICV	V				4.9874		1.0000	05/24/95	12:53		0.05	@ICP-QC			
38	1305	1			ICV	Y				0.0119		1.0000	05/24/95	12:53		0.01	@ICP-QC			
39	1305	1			ICV	ZN				5.0593		1.0000	05/24/95	12:53		0.01	@ICP-QC			
40	1305	1			ICV	ZR				5.0165		1.0000	05/24/95	12:53		0.01	@ICP-QC			
41	1305	2			ICB	AG				-0.0008		1.0000	05/24/95	12:56		0.01	@ICP-QC			
42	1305	2			ICB	AL				0.0023		1.0000	05/24/95	12:56		0.05	@ICP-QC			
43	1305	2			ICB	AS				0.0101		1.0000	05/24/95	12:56		0.05	@ICP-QC			
44	1305	2			ICB	B				0.0034		1.0000	05/24/95	12:56		0.05	@ICP-QC			
45	1305	2			ICB	BA				-0.0000		1.0000	05/24/95	12:56		0.05	@ICP-QC			
46	1305	2			ICB	BE				0.0001		1.0000	05/24/95	12:56		0.005	@ICP-QC			
47	1305	2			ICB	BI				0.0422		1.0000	05/24/95	12:56		0.1	@ICP-QC			
48	1305	2			ICB	CA				-0.0087		1.0000	05/24/95	12:56		0.1	@ICP-QC			
49	1305	2			ICB	CD				-0.0006		1.0000	05/24/95	12:56		0.01	@ICP-QC			
50	1305	2			ICB	CE				-0.0066		1.0000	05/24/95	12:56		0.1	@ICP-QC			
51	1305	2			ICB	CO				-0.0011		1.0000	05/24/95	12:56		0.02	@ICP-QC			
52	1305	2			ICB	CR				-0.0004		1.0000	05/24/95	12:56		0.01	@ICP-QC			
53	1305	2			ICB	CU				-0.0006		1.0000	05/24/95	12:56		0.01	@ICP-QC			
54	1305	2			ICB	EU				-0.0010		1.0000	05/24/95	12:56		0.05	@ICP-QC			
55	1305	2			ICB	FE				-0.0027		1.0000	05/24/95	12:56		0.05	@ICP-QC			
56	1305	2			ICB	K				0.0810		1.0000	05/24/95	12:56		0.3	@ICP-QC			
57	1305	2			ICB	LA				-0.0007		1.0000	05/24/95	12:56		0.05	@ICP-QC			
58	1305	2			ICB	LI				-0.0007		1.0000	05/24/95	12:56		0.01	@ICP-QC			
59	1305	2			ICB	MG				-0.0073		1.0000	05/24/95	12:56		0.1	@ICP-QC			
60	1305	2			ICB	MN				-0.0002		1.0000	05/24/95	12:56		0.01	@ICP-QC			
61	1305	2			ICB	MO				0.0002		1.0000	05/24/95	12:56		0.05	@ICP-QC			
62	1305	2			ICB	NA				-0.0010		1.0000	05/24/95	12:56		0.1	@ICP-QC			
63	1305	2			ICB	NI				-0.0014		1.0000	05/24/95	12:56		0.1	@ICP-QC			
64	1305	2			ICB	P				-0.0036		1.0000	05/24/95	12:56		0.02	@ICP-QC			
65	1305	2			ICB	PB				0.0315		1.0000	05/24/95	12:56		0.2	@ICP-QC			
66	1305	2			ICB	S				-0.0125		1.0000	05/24/95	12:56		0.1	@ICP-QC			
67	1305	2			ICB	SB				-0.0135		1.0000	05/24/95	12:56		0.05	@ICP-QC			
68	1305	2			ICB	SE				0.0045		1.0000	05/24/95	12:56		0.2	@ICP-QC			
69	1305	2			ICB	SI				0.0387		1.0000	05/24/95	12:56		0.1	@ICP-QC			
70	1305	2			ICB	SM				-0.0067		1.0000	05/24/95	12:56		0.05	@ICP-QC			
71	1305	2			ICB	SR				-0.0012		1.0000	05/24/95	12:56		0.1	@ICP-QC			
72	1305	2			ICB	TH				-0.0001		1.0000	05/24/95	12:56		0.01	@ICP-QC			
73	1305	2			ICB	TI				0.0020		1.0000	05/24/95	12:56		0	@ICP-QC			
74	1305	2			ICB	TL				-0.0004		1.0000	05/24/95	12:56		0.01	@ICP-QC			
75	1305	2			ICB	U				0.0247		1.0000	05/24/95	12:56		0.2	@ICP-QC			
76	1305	2			ICB	V				0.0151		1.0000	05/24/95	12:56		0.4	@ICP-QC			
77	1305	2			ICB	Y				-0.0027		1.0000	05/24/95	12:56		0.05	@ICP-QC			
78	1305	2			ICB	ZN				-0.0006		1.0000	05/24/95	12:56		0.01	@ICP-QC			
79	1305	2			ICB	ZR				-0.0012		1.0000	05/24/95	12:56		0.01	@ICP-QC			
80	1305	3			ICSA	AG				-0.0007		1.0000	05/24/95	12:56		0.01	@ICP-QC			
81	1305	3			ICSA	AL				241.4527		1.0000	05/24/95	13:00		0.05	@ICP-QC			
82	1305	3			ICSA	AS				-0.0545		1.0000	05/24/95	13:00		0.05	@ICP-QC			
83	1305	3			ICSA	B				-0.0046		1.0000	05/24/95	13:00		0.05	@ICP-QC			
84	1305	3			ICSA	BA				0.0035		1.0000	05/24/95	13:00		0.05	@ICP-QC			
85	1305	3			ICSA	BE				0.0001		1.0000	05/24/95	13:00		0.005	@ICP-QC			
86	1305	3			ICSA	BI				0.0779		1.0000	05/24/95	13:00		0.1	@ICP-QC			
87	1305	3			ICSA	CA				241.0266		1.0000	05/24/95	13:00		0.1	@ICP-QC			
88	1305	3			ICSA	CD				-0.0001		1.0000	05/24/95	13:00		0.01	@ICP-QC			
89	1305	3			ICSA	CE				0.0027		1.0000	05/24/95	13:00		0.1	@ICP-QC			
90	1305	3			ICSA	CO				-0.0018		1.0000	05/24/95	13:00		0.02	@ICP-QC			
91	1305	3			ICSA	CR				-0.0059		1.0000	05/24/95	13:00		0.01	@ICP-QC			
92	1305	3			ICSA	CU				-0.0069		1.0000	05/24/95	13:00		0.01	@ICP-QC			
93	1305	3			ICSA	EU				0.0383		1.0000	05/24/95	13:00		0.05	@ICP-QC			
94	1305	3			ICSA	FE				90.4235		1.0000	05/24/95	13:00		0.05	@ICP-QC			
95	1305	3			ICSA	K				-0.0037		1.0000	05/24/95	13:00		0.3	@ICP-QC			
96	1305	3			ICSA	LA				-0.0038		1.0000	05/24/95	13:00		0.05	@ICP-QC			
97	1305	3			ICSA	LI				-0.0015		1.0000	05/24/95	13:00		0.01	@ICP-QC			
98	1305	3			ICSA	MG				245.3218		1.0000	05/24/95	13:00		0.1	@ICP-QC			
99	1305	3			ICSA	MN				-0.0042		1.0000	05/24/95	13:00		0.01	@ICP-QC			
100	1305	3			ICSA	MO				-0.0130		1.0000	05/24/95	13:00		0.05	@ICP-QC			
101	1305	3			ICSA	NA				190.5079		1.0000	05/24/95	13:00		0.1	@ICP-QC			
102	1305	3			ICSA	NI				-0.0060		1.0000	05/24/95	13:00		0.1	@ICP-QC			
103	1305	3			ICSA	P				-0.0175		1.0000	05/24/95	13:00		0.02	@ICP-QC			
104	1305	3			ICSA	PB				-0.0017		1.0000	05/24/95	13:00		0.2	@ICP-QC			
105	1305	3			ICSA	S				0.2291		1.0000	05/24/95	13:00		0.1	@ICP-QC			
106	1305	3			ICSA	SB				0.0267		1.0000	05/24/95	13:00		0.05	@ICP-QC			
107	1305	3			ICSA	SE				0.0110		1.0000	05/24/95	13:00		0.2	@ICP-QC			
108	1305	3			ICSA	SI				0.1017		1.0000	05/24/95	13:00		0.1	@ICP-QC			
109	1305	3			ICSA	SM				0.0334		1.0000	05/24/95	13:00		0.05	@ICP-QC			
110	1305	3			ICSA	SR				-0.0150		1.0000	05/24/95	13:00		0.1	@ICP-QC			
111	1305	3			ICSA	TH				-0.0044		1.0000	05/24/95	13:00		0.01	@ICP-QC			
112	1305	3			ICSA	TI				0.0183		1.0000	05/24/95	13:00		0	@ICP-QC			
113	1305	3			ICSA	TL				0.0010		1.0000	05/24/95	13:00		0.01	@ICP-QC			
114	1305	3			ICSA	U				0.0296		1.0000	05/24/95	13:00		0.2	@ICP-QC			
115	1305	3			ICSA	V				0.0877		1.0000	05/24/95	13:00		0.4	@ICP-QC			
116	1305	3			ICSA	Y				-0.0024		1.0000	05/24/95	13:00		0.05	@ICP-QC			
117	1305	3			ICSA	ZN				0.0163		1.0000	05/24/95	13:00		0.01	@ICP-QC			
118	1305	3			ICSA	ZR				-0.0243		1.0000	05/24/95	13:00		0.01	@ICP-QC			
119	1305	4			ICSAB	AG				-0.0024		1.0000	05/24/95	13:00		0.01	@ICP-QC			
120	1305	4			ICSAB	AL				0.9486		1.0000	05/24/95	13:04		0.05	@ICP-QC			
121	1305	4			ICSAB	AS				241.2475		1.0000	05/24/95	13:04		0.05	@ICP-QC			
122	1305	4			ICSAB	B				-0.0077		1.0000	05/24/95	13:04		0.05	@ICP-QC			
123	1305	4			ICSAB	BA				0.0094		1.0000	05/24/95	13:04		0.05	@ICP-QC			
124	1305	4			ICSAB	BE				0.4511		1.0000	05/24/95	13:04		0.005	@ICP-QC			
125	1305	4			ICSAB	BI				0.4726		1.0000	05/24/95	13:04		0.005	@ICP-QC			
126	1305	4			ICSAB	CA				0.0537		1.0000	05/24/95	13:04		0.1	@ICP-QC			
127	1305	4			ICSAB	CD				244.4695		1.0000	05/24/95	13:04		0.1	@ICP-QC			
128	1305	4			ICSAB	CE				0.9278		1.0000	05/24/95	13:04		0.01	@ICP-QC			
129	1305	4			ICSAB	CO				-0.0035		1.0000	05/24/95	13:04		0.1	@ICP-QC			
130	1305	4			ICSAB	CR				0.4596		1.0000	05/24/95	13:04		0.02	@ICP-QC			
131	1305	4			ICSAB	CU				0.4662		1.0000	05/24/95	13:04		0.01	@ICP-QC			
132	1305	4			ICSAB	EU				0.4774		1.0000	05/24/95	13:04		0.01	@ICP-QC			
133	1305	4			ICSAB	FE				0.0360		1.0000	05/24/95	13:04		0.05	@ICP-QC			
134	1305	4			ICSAB	K				91.9538		1.0000	05/24/95	13:04		0.05	@ICP-QC			
135	1305	4			ICSAB	LA				0.1074		1.0000	05/24/95	13:04		0.3	@ICP-QC			
136	1305	4			ICSAB	LI				0.0041		1.0000	05/24/95	13:04		0.05	@ICP-QC			
137	1305	4			ICSAB	MG				0.1747		1.0000	05/24/95	13:04		0.01	@ICP-QC			
138	1305	4			ICSAB	MN				244.2019		1.0000	05/24/95	13:04		0.1	@ICP-QC			
139	1305	4			ICSAB	MO				0.4417		1.0000	05/24/95	13:04		0.01	@ICP-QC			
140	1305	4			ICSAB	NA				-0.6137		1.0000	05/24/95	13:04		0.05	@ICP-QC			
141	1305	4			ICSAB	NI				189.6658		1.0000	05/24/95	13:04		0.1	@ICP-QC			
142	1305	4			ICSAB	P				0.0130		1.0000	05/24/95	13:04		0.1	@ICP-QC			
143	1305	4			ICSAB	PB				0.8852		1.0000	05/24/95	13:04		0.02	@ICP-QC			
144	1305	4			ICSAB	S				0.1244		1.0000	05/24/95	13:04		0.2	@ICP-QC			
145	1305	4			ICSAB	SB				0.9665		1.0000	05/24/95	13:04		0.1	@ICP-QC			
146	1305	4			ICSAB	SE				0.0243		1.0000	05/24/95	13:04		0.05	@ICP-QC			
147	1305	4			ICSAB	SI				-0.0022		1.0000	05/24/95	13:04		0.2	@ICP-QC			
148	1305	4			ICSAB	SM				0.1189		1.0000	05/24/95	13:04		0.1	@ICP-QC			
149	1305	4			ICSAB	SR				0.0383		1.0000	05/24/95	13:04		0.05	@ICP-QC			
150	1305	4			ICSAB	TH				-0.0195		1.0000	05/24/95	13:04		0.1	@ICP-QC			
151	1305	4			ICSAB	TI				-0.0045		1.0000	05/24/95	13:04		0.01	@ICP-QC			
152	1305	4			ICSAB	TL				-0.0169		1.0000	05/24/95	13:04		0	@ICP-QC			

509

WHC-SD-WM-DP-154, REV. 0

8
05/24/95

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
184	1305	4			ICSAB	TI				0.0006		1.0000	05/24/95	13:04		deg	0.01	@ICP-QC			
185	1305	4			ICSAB	U				0.0597		1.0000	05/24/95	13:04		deg	0.2	@ICP-QC			
186	1305	4			ICSAB	U				0.0453		1.0000	05/24/95	13:04		deg	0.4	@ICP-QC			
187	1305	4			ICSAB	V				0.4603		1.0000	05/24/95	13:04		deg	0.05	@ICP-QC			
188	1305	4			ICSAB	V				0.0161		1.0000	05/24/95	13:04		deg	0.01	@ICP-QC			
189	1305	4			ICSAB	ZN				0.9309		1.0000	05/24/95	13:04		deg	0.01	@ICP-QC			
190	1305	4			ICSAB	ZR				-0.0026		1.0000	05/24/95	13:04		deg	0.01	@ICP-QC			
191	1305	5			PREPBLKTJA	AG-F-01				-0.0038		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
192	1305	5			PREPBLKTJA	AL-F-01				0.3089		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
193	1305	5			PREPBLKTJA	AS-F-01				-0.0384		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
194	1305	5			PREPBLKTJA	B-F-01				-0.0056		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
195	1305	5			PREPBLKTJA	BA-F-01				0.0041		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
196	1305	5			PREPBLKTJA	BE-F-01				-0.0019		10.0000	05/24/95	13:08		deg	0.005	@ICP-F01			
197	1305	5			PREPBLKTJA	BI-F-01				10.1776		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
198	1305	5			PREPBLKTJA	CA-F-01				0.5395		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
199	1305	5			PREPBLKTJA	CD-F-01				-0.0017		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
200	1305	5			PREPBLKTJA	CE-F-01				-0.0738		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
201	1305	5			PREPBLKTJA	CO-F-01				-0.0045		10.0000	05/24/95	13:08		deg	0.02	@ICP-F01			
202	1305	5			PREPBLKTJA	CR-F-01				0.0047		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
203	1305	5			PREPBLKTJA	CU-F-01				0.0218		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
204	1305	5			PREPBLKTJA	EU-F-01				0.0040		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
205	1305	5			PREPBLKTJA	FE-F-01				0.9475		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
206	1305	5			PREPBLKTJA	K-F-01				14508.5488		10.0000	05/24/95	13:08		deg	0.3	@ICP-F01			
207	1305	5			PREPBLKTJA	LA-F-01				-0.0062		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
208	1305	5			PREPBLKTJA	LI-F-01				-0.0026		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
209	1305	5			PREPBLKTJA	MG-F-01				0.1808		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
210	1305	5			PREPBLKTJA	MN-F-01				0.0384		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
211	1305	5			PREPBLKTJA	MO-F-01				0.0051		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
212	1305	5			PREPBLKTJA	NA-F-01				5.5203		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
213	1305	5			PREPBLKTJA	NB-F-01				-0.0212		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
214	1305	5			PREPBLKTJA	NI-F-01				10.7741		10.0000	05/24/95	13:08		deg	0.02	@ICP-F01			
215	1305	5			PREPBLKTJA	P-F-01				0.4802		10.0000	05/24/95	13:08		deg	0.2	@ICP-F01			
216	1305	5			PREPBLKTJA	PB-F-01				0.1459		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
217	1305	5			PREPBLKTJA	S-F-01				0.0791		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
218	1305	5			PREPBLKTJA	SB-F-01				-0.0532		10.0000	05/24/95	13:08		deg	0.2	@ICP-F01			
219	1305	5			PREPBLKTJA	SE-F-01				-2.5534		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
220	1305	5			PREPBLKTJA	SI-F-01				0.3928		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
221	1305	5			PREPBLKTJA	SN-F-01				-0.0123		10.0000	05/24/95	13:08		deg	0.1	@ICP-F01			
222	1305	5			PREPBLKTJA	SR-F-01				0.0020		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
223	1305	5			PREPBLKTJA	TA-F-01				-0.2373		10.0000	05/24/95	13:08		deg	0	@ICP-F01			
224	1305	5			PREPBLKTJA	TH-F-01				0.0128		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
225	1305	5			PREPBLKTJA	TL-F-01				0.4310		10.0000	05/24/95	13:08		deg	0.2	@ICP-F01			
226	1305	5			PREPBLKTJA	U-F-01				-4.1271		10.0000	05/24/95	13:08		deg	0.4	@ICP-F01			
227	1305	5			PREPBLKTJA	V-F-01				0.0032		10.0000	05/24/95	13:08		deg	0.05	@ICP-F01			
228	1305	5			PREPBLKTJA	Y-F-01				-0.0016		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
229	1305	5			PREPBLKTJA	ZN-F-01				0.0136		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
230	1305	5			PREPBLKTJA	ZR-F-01				0.0364		10.0000	05/24/95	13:08		deg	0.01	@ICP-F01			
231	1305	6	SW5TK00786			AG-F-01			<	53.9400		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
232	1305	6	SW5TK00786			AL-F-01				2745.9700		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
233	1305	6	SW5TK00786			AS-F-01			<	269.7000		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
234	1305	6	SW5TK00786			B-F-01			<	269.7000		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
235	1305	6	SW5TK00786			BA-F-01			<	269.7000		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
236	1305	6	SW5TK00786			BE-F-01			<	26.9700		5394.0000	05/24/95	13:15		deg	0.005	@ICP-F01			
237	1305	6	SW5TK00786			BI-F-01			<	539.4000		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
238	1305	6	SW5TK00786			CA-F-01				4671.7437		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
239	1305	6	SW5TK00786			CD-F-01			<	53.9400		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
240	1305	6	SW5TK00786			CE-F-01			<	539.4000		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
241	1305	6	SW5TK00786			CO-F-01			<	107.8800		5394.0000	05/24/95	13:15		deg	0.02	@ICP-F01			
242	1305	6	SW5TK00786			CR-F-01				120.9777		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
243	1305	6	SW5TK00786			CU-F-01			<	53.9400		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
244	1305	6	SW5TK00786			FE-F-01				18455.1875		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
245	1305	6	SW5TK00786			K-F-01				8061852.0000		5394.0000	05/24/95	13:15		deg	0.3	@ICP-F01			
246	1305	6	SW5TK00786			LA-F-01			<	269.7000		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
247	1305	6	SW5TK00786			LI-F-01			<	53.9400		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
248	1305	6	SW5TK00786			MG-F-01				993.7351		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
249	1305	6	SW5TK00786			MN-F-01				179.6184		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
250	1305	6	SW5TK00786			MO-F-01			<	269.7000		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
251	1305	6	SW5TK00786			NA-F-01				106544.2344		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
252	1305	6	SW5TK00786			NB-F-01			<	539.4000		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
253	1305	6	SW5TK00786			NI-F-01				6219.7246		5394.0000	05/24/95	13:15		deg	0.02	@ICP-F01			
254	1305	6	SW5TK00786			P-F-01				2614.3516		5394.0000	05/24/95	13:15		deg	0.2	@ICP-F01			
255	1305	6	SW5TK00786			PB-F-01				542.5638		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
256	1305	6	SW5TK00786			S-F-01				1410.0352		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
257	1305	6	SW5TK00786			SB-F-01				1078.8960		5394.0000	05/24/95	13:15		deg	0.2	@ICP-F01			
258	1305	6	SW5TK00786			SE-F-01				539.4000		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
259	1305	6	SW5TK00786			SI-F-01				1683.5175		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
260	1305	6	SW5TK00786			SN-F-01			<	539.4000		5394.0000	05/24/95	13:15		deg	0.1	@ICP-F01			
261	1305	6	SW5TK00786			SR-F-01				498.8640		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
262	1305	6	SW5TK00786			TA-F-01				106.4113		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
263	1305	6	SW5TK00786			TH-F-01				1078.8000		5394.0000	05/24/95	13:15		deg	0.2	@ICP-F01			
264	1305	6	SW5TK00786			TL-F-01				6232.8442		5394.0000	05/24/95	13:15		deg	0.4	@ICP-F01			
265	1305	6	SW5TK00786			U-F-01			<	269.7000		5394.0000	05/24/95	13:15		deg	0.05	@ICP-F01			
266	1305	6	SW5TK00786			V-F-01				167.5055		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
267	1305	6	SW5TK00786			ZN-F-01			<	53.9400		5394.0000	05/24/95	13:15		deg	0.01	@ICP-F01			
268	1305	6	SW5TK00786		DUP	AG-F-01		<53.9400		<50.0600		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
269	1305	6	SW5TK00786		DUP	AL-F-01		3745.9700		2681.3501		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
270	1305	6	SW5TK00786		DUP	AS-F-01		<269.7000		<250.3000		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
271	1305	6	SW5TK00786		DUP	B-F-01		<269.7000		<250.3000		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
272	1305	6	SW5TK00786		DUP	BA-F-01		<269.7000		<250.3000		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
273	1305	6	SW5TK00786		DUP	BE-F-01		<26.9700		<25.0300		5006.0000	05/24/95	13:19		deg	0.005	@ICP-F01			
274	1305	6	SW5TK00786		DUP	BI-F-01		<539.4000		<500.6000		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
275	1305	6	SW5TK00786		DUP	CA-F-01		4671.7437		4867.7676		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
276	1305	6	SW5TK00786		DUP	CD-F-01		<53.9400		<50.0600		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
277	1305	6	SW5TK00786		DUP	CE-F-01		<539.4000		<500.6000		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
278	1305	6	SW5TK00786		DUP	CO-F-01		<107.8800		<100.1200		5006.0000	05/24/95	13:19		deg	0.02	@ICP-F01			
279	1305	6	SW5TK00786		DUP	CR-F-01		120.9777		126.5146		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
280	1305	6	SW5TK00786		DUP	CU-F-01		<53.9400		<50.0600		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
281	1305	6	SW5TK00786		DUP	FE-F-01		18466.1875		19515.1275		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
282	1305	6	SW5TK00786		DUP	K-F-01		8061852.0000		8153571.5000		5006.0000	05/24/95	13:19		deg	0.3	@ICP-F01			
283	1305	6	SW5TK00786		DUP	LA-F-01		<269.7000		<250.3000		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
284	1305	6	SW5TK00786		DUP	LI-F-01		<53.9400		<50.0600		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
285	1305	6	SW5TK00786		DUP	MG-F-01		993.7351		958.4035		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
286	1305	6	SW5TK00786		DUP	MN-F-01		179.6184		183.7819		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
287	1305	6	SW5TK00786		DUP	MO-F-01		<269.7000		<250.3000		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
288	1305	6	SW5TK00786		DUP	NA-F-01		106544.2344		110554.2813		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
289	1305	6	SW5TK00786		DUP	NB-F-01		<539.4000		<500.6000		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
290	1305	6	SW5TK00786		DUP	NI-F-01		6219.7246		6812.9453		5006.0000	05/24/95	13:19		deg	0.02	@ICP-F01			
291	1305	6	SW5TK00786		DUP	P-F-01		2614.3516		2388.3464		5006.0000	05/24/95	13:19		deg	0.2	@ICP-F01			
292	1305	6	SW5TK00786		DUP	PB-F-01		542.5638		626.9124		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
293	1305	6	SW5TK00786		DUP	S-F-01		1410.0352		6347.9024		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
294	1305	6	SW5TK00786		DUP	SB-F-01		<1078.8000		<1001.2000		5006.0000	05/24/95	13:19		deg	0.2	@ICP-F01			
295	1305	6	SW5TK00786		DUP	SE-F-01		<539.4000		<500.6000		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
296	1305	6	SW5TK00786		DUP	SI-F-01		1683.5175		679.6324		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
297	1305	6	SW5TK00786		DUP	SN-F-01		<539.4000		<500.6000		5006.0000	05/24/95	13:19		deg	0.1	@ICP-F01			
298	1305	6	SW5TK00786		DUP	SR-F-01		498.8640		516.8222		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
299	1305	6	SW5TK00786		DUP	TA-F-01		106.4113		117.0608		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
300	1305	6	SW5TK00786		DUP	TH-F-01		<1078.8000		<1001.2000		5006.0000	05/24/95	13:19		deg	0.2	@ICP-F01			
301	1305	6	SW5TK00786		DUP	TL-F-01		6232.8442		7059.3062		5006.0000	05/24/95	13:19		deg	0.4	@ICP-F01			
302	1305	6	SW5TK00786		DUP	U-F-01		<269.7000		<250.3000		5006.0000	05/24/95	13:19		deg	0.05	@ICP-F01			
303	1305	6	SW5TK00786		DUP	V-F-01		167.5055		122.4801		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
304	1305	6	SW5TK00786		DUP	ZN-F-01		<53.9400		<50.0600		5006.0000	05/24/95	13:19		deg	0.01	@ICP-F01			
305	1305	7	SW5TK00784_A			AG-F-01		50.0		4151.5054		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			
306	1305	7	SW5TK00784_A			AL-F-01		5000.0		5136.5091		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
307	1305	7	SW5TK00784_A			AS-F-01		5000.0		5666.7446		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
308	1305	7	SW5TK00784_A			B-F-01		5000.0		5172.9419		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
309	1305	7	SW5TK00784_A			BA-F-01		5000.0		4933.8477		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
310	1305	7	SW5TK00784_A			BE-F-01		5000.0		5551.1732		5394.0000	05/24/95	13:23		deg	0.005	@ICP-F01			
311	1305	7	SW5TK00784_A			BI-F-01		5000.0	<	539.4		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
312	1305	7	SW5TK00784_A			CA-F-01		5000.0		5614.3613		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
313	1305	7	SW5TK00784_A			CD-F-01		5000.0		5500.2041		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			
314	1305	7	SW5TK00784_A			CE-F-01		5000.0		5067.1182		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
315	1305	7	SW5TK00784_A			CO-F-01		5000.0		5402.3750		5394.0000	05/24/95	13:23		deg	0.02	@ICP-F01			
316	1305	7	SW5TK00784_A			CR-F-01		5000.0		5511.0293		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			
317	1305	7	SW5TK00784_A			CU-F-01		5000.0		5556.2207		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			
318	1305	7	SW5TK00784_A			FE-F-01		5000.0		5951.9082		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
319	1305	7	SW5TK00784_A			K-F-01		0.0		8085177.0000		5394.0000	05/24/95	13:23		deg	0.3	@ICP-F01			
320	1305	7	SW5TK00784_A			LA-F-01		5000.0		5070.5850		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
321	1305	7	SW5TK00784_A			LI-F-01		5000.0		4800.7139		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			
322	1305	7	SW5TK00784_A			MG-F-01		5000.0		4957.5872		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
323	1305	7	SW5TK00784_A			MN-F-01		5000.0		5229.4756		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			
324	1305	7	SW5TK00784_A			MO-F-01		5000.0		5523.8184		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
325	1305	7	SW5TK00784_A			NA-F-01		5000.0		113208.8281		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
326	1305	7	SW5TK00784_A			NB-F-01		5000.0		5157.0068		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
327	1305	7	SW5TK00784_A			NI-F-01		5000.0		9775.043		5394.0000	05/24/95	13:23		deg	0.02	@ICP-F01			
328	1305	7	SW5TK00784_A			P-F-01		5000.0		66857.2345		5394.0000	05/24/95	13:23		deg	0.2	@ICP-F01			
329	1305	7	SW5TK00784_A			PB-F-01		5000.0		5563.1989		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
330	1305	7	SW5TK00784_A			S-F-01		5000.0		5585.915		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
331	1305	7	SW5TK00784_A			SB-F-01		5000.0		5162.9522		5394.0000	05/24/95	13:23		deg	0.2	@ICP-F01			
332	1305	7	SW5TK00784_A			SE-F-01		5000.0		4097.1299		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
333	1305	7	SW5TK00784_A			SI-F-01		5000.0		5471.1696		5394.0000	05/24/95	13:23		deg	0.05	@ICP-F01			
334	1305	7	SW5TK00784_A			SN-F-01		5000.0		5095.5342		5394.0000	05/24/95	13:23		deg	0.1	@ICP-F01			
335	1305	7	SW5TK00784_A			SR-F-01		5000.0		4975.5437		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			
336	1305	7	SW5TK00784_A			TA-F-01		5000.0		5133.5781		5394.0000	05/24/95	13:23		deg	0.01	@ICP-F01			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
307	1305		8 SI951000766_A			TL-F-01		5000 0		5105 9003		5394 0000	05/24/95	13:23	RB	0 2	ICP-FD1			
308	1305		8 SI951000766_A			U-F-01		10000 0		9913 90		5394 0000	05/24/95	13:23	RB	0 4	ICP-FD1			
309	1305		8 SI951000766_A			V-F-01		5000 0		5225 2852		5394 0000	05/24/95	13:23	RB	0 05	ICP-FD1			
310	1305		8 SI951000766_A			ZN-F-01		5000 0		5380 6683		5394 0000	05/24/95	13:23	RB	0 01	ICP-FD1			
311	1305		8 SI951000766_A			ZR-F-01		5000 0		5218 752		5394 0000	05/24/95	13:23	RB	0 01	ICP-FD1			
312	1305		9		CCV	AG				5 0532			1 0000	05/24/95	13:40	RB	0 03	ICP-QC			
313	1305		9		CCV	AL				5 1080			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
314	1305		9		CCV	AS				5 2095			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
315	1305		9		CCV	B				5 0830			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
316	1305		9		CCV	BA				5 0792			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
317	1305		9		CCV	BE				5 2596			1 0000	05/24/95	13:40	RB	0 005	ICP-QC			
318	1305		9		CCV	C				5 1582			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
319	1305		9		CCV	CA				5 1365			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
320	1305		9		CCV	CD				5 1579			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
321	1305		9		CCV	CE				5 1695			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
322	1305		9		CCV	CL				5 1358			1 0000	05/24/95	13:40	RB	0 02	ICP-QC			
323	1305		9		CCV	CR				5 1632			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
324	1305		9		CCV	CU				5 1335			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
325	1305		9		CCV	FE				0 0103			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
326	1305		9		CCV	FE				5 1700			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
327	1305		9		CCV	K				5 2779			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
328	1305		9		CCV	LA				5 1483			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
329	1305		9		CCV	LI				5 2151			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
330	1305		9		CCV	MG				5 0813			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
331	1305		9		CCV	MN				5 3606			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
332	1305		9		CCV	MO				5 1348			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
333	1305		9		CCV	NA				5 1419			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
334	1305		9		CCV	NI				5 2690			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
335	1305		9		CCV	P				5 1434			1 0000	05/24/95	13:40	RB	0 02	ICP-QC			
336	1305		9		CCV	P				5 1607			1 0000	05/24/95	13:40	RB	0 2	ICP-QC			
337	1305		9		CCV	PB				5 1205			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
338	1305		9		CCV	S				5 1142			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
339	1305		9		CCV	SB				4 8526			1 0000	05/24/95	13:40	RB	0 2	ICP-QC			
340	1305		9		CCV	SE				5 2122			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
341	1305		9		CCV	SI				4 7915			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
342	1305		9		CCV	SM				5 1625			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
343	1305		9		CCV	SN				5 0489			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
344	1305		9		CCV	TH				-0 0236			1 0000	05/24/95	13:40	RB	0 1	ICP-QC			
345	1305		9		CCV	TI				4 9717			1 0000	05/24/95	13:40	RB	0 02	ICP-QC			
346	1305		9		CCV	TL				5 0163			1 0000	05/24/95	13:40	RB	0 2	ICP-QC			
347	1305		9		CCV	U				10 1654			1 0000	05/24/95	13:40	RB	0 4	ICP-QC			
348	1305		9		CCV	V				4 9210			1 0000	05/24/95	13:40	RB	0 05	ICP-QC			
349	1305		9		CCV	Y				0 0124			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
350	1305		9		CCV	ZN				5 1318			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
351	1305		9		CCV	ZR				5 0595			1 0000	05/24/95	13:40	RB	0 01	ICP-QC			
352	1305		10		CCB	AG				0 0001			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
353	1305		10		CCB	AL				0 0041			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
354	1305		10		CCB	AS				-0 0062			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
355	1305		10		CCB	B				-0 0005			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
356	1305		10		CCB	BA				0 0002			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
357	1305		10		CCB	BE				0 0001			1 0000	05/24/95	13:44	RB	0 005	ICP-QC			
358	1305		10		CCB	BI				-0 0074			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
359	1305		10		CCB	CA				-0 0063			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
360	1305		10		CCB	CD				-0 0001			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
361	1305		10		CCB	CE				0 0078			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
362	1305		10		CCB	CO				-0 0004			1 0000	05/24/95	13:44	RB	0 02	ICP-QC			
363	1305		10		CCB	CR				-0 0003			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
364	1305		10		CCB	CU				0 0000			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
365	1305		10		CCB	EU				-0 0009			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
366	1305		10		CCB	FE				-0 0018			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
367	1305		10		CCB	K				-0 0083			1 0000	05/24/95	13:44	RB	0 3	ICP-QC			
368	1305		10		CCB	LA				0 0014			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
369	1305		10		CCB	LI				-0 0004			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
370	1305		10		CCB	MG				-0 0088			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
371	1305		10		CCB	MN				0 0000			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
372	1305		10		CCB	MO				0 0018			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
373	1305		10		CCB	NA				-0 0021			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
374	1305		10		CCB	NI				-0 0014			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
375	1305		10		CCB	P				-0 0007			1 0000	05/24/95	13:44	RB	0 02	ICP-QC			
376	1305		10		CCB	PB				0 0134			1 0000	05/24/95	13:44	RB	0 2	ICP-QC			
377	1305		10		CCB	S				-0 0096			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
378	1305		10		CCB	SB				-0 0057			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
379	1305		10		CCB	SE				-0 0071			1 0000	05/24/95	13:44	RB	0 2	ICP-QC			
380	1305		10		CCB	SI				-0 0067			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
381	1305		10		CCB	SN				-0 0073			1 0000	05/24/95	13:44	RB	0 05	ICP-QC			
382	1305		10		CCB	TH				-0 0173			1 0000	05/24/95	13:44	RB	0 1	ICP-QC			
383	1305		10		CCB	TI				-0 0075			1 0000	05/24/95	13:44	RB	0 02	ICP-QC			
384	1305		10		CCB	TL				-0 0046			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
385	1305		10		CCB	U				-0 0002			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
386	1305		10		CCB	V				0 0008			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
387	1305		10		CCB	ZR				0 0000			1 0000	05/24/95	13:44	RB	0 01	ICP-QC			
388	1305		11	2SI951000766		AG-F-01			<	49 9700		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
389	1305		11	SI951000766		AL-F-01			<	499 9688		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
390	1305		11	SI951000766		AS-F-01			<	249 8500		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
391	1305		11	SI951000766		B-F-01			<	249 8500		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
392	1305		11	SI951000766		BA-F-01			<	249 8500		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
393	1305		11	SI951000766		BE-F-01			<	24 9850		4997 0000	05/24/95	13:52	RB	0 005	ICP-FD1			
394	1305		11	SI951000766		BI-F-01			<	499 7000		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
395	1305		11	SI951000766		CA-F-01				1154 4103		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
396	1305		11	SI951000766		CD-F-01			<	49 9700		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
397	1305		11	SI951000766		CE-F-01			<	499 7000		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
398	1305		11	SI951000766		CL-F-01			<	99 9400		4997 0000	05/24/95	13:52	RB	0 02	ICP-FD1			
399	1305		11	SI951000766		CO-F-01			<	142 5103		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
400	1305		11	SI951000766		CR-F-01			<	49 9700		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
401	1305		11	SI951000766		CU-F-01				2141 1074		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
402	1305		11	SI951000766		EU-F-01				7804887 0000		4997 0000	05/24/95	13:52	RB	0 2	ICP-FD1			
403	1305		11	SI951000766		FE-F-01			<	249 8500		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
404	1305		11	SI951000766		K-F-01			<	49 9700		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
405	1305		11	SI951000766		LA-F-01			<	499 7000		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
406	1305		11	SI951000766		LI-F-01				108 9283		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
407	1305		11	SI951000766		MG-F-01			<	249 8500		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
408	1305		11	SI951000766		MN-F-01				113021 7422		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
409	1305		11	SI951000766		MO-F-01			<	499 7000		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
410	1305		11	SI951000766		NA-F-01				7793 6799		4997 0000	05/24/95	13:52	RB	0 02	ICP-FD1			
411	1305		11	SI951000766		NI-F-01				26172 6172		4997 0000	05/24/95	13:52	RB	0 2	ICP-FD1			
412	1305		11	SI951000766		P-F-01			<	499 7000		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
413	1305		11	SI951000766		PB-F-01				6578 7227		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
414	1305		11	SI951000766		S-F-01			<	999 4000		4997 0000	05/24/95	13:52	RB	0 2	ICP-FD1			
415	1305		11	SI951000766		SB-F-01			<	999 4000		4997 0000	05/24/95	13:52	RB	0 2	ICP-FD1			
416	1305		11	SI951000766		SE-F-01			<	499 7000		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
417	1305		11	SI951000766		SI-F-01				771 2600		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
418	1305		11	SI951000766		SM-F-01			<	499 7000		4997 0000	05/24/95	13:52	RB	0 1	ICP-FD1			
419	1305		11	SI951000766		SN-F-01				673 2586		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
420	1305		11	SI951000766		TH-F-01			<	49 9700		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
421	1305		11	SI951000766		TI-F-01			<	999 4000		4997 0000	05/24/95	13:52	RB	0 2	ICP-FD1			
422	1305		11	SI951000766		TL-F-01				26353 5781		4997 0000	05/24/95	13:52	RB	0 4	ICP-FD1			
423	1305		11	SI951000766		U-F-01			<	249 8500		4997 0000	05/24/95	13:52	RB	0 05	ICP-FD1			
424	1305		11	SI951000766		V-F-01				127 4068		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
425	1305		11	SI951000766		ZN-F-01			<	49 9700		4997 0000	05/24/95	13:52	RB	0 01	ICP-FD1			
426	1305		12	SI951000766	DUP	AG-F-01		<49 9700		<507 7000		5072 0000	05/24/95	13:56	RB	0 01	ICP-FD1			
427	1305		12	SI951000766	DUP	AL-F-01		499 9688		486 9465		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
428	1305		12	SI951000766	DUP	AS-F-01		<249 8500		<253 6000		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
429	1305		12	SI951000766	DUP	B-F-01		<249 8500		<253 6000		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
430	1305		12	SI951000766	DUP	BA-F-01		<249 8500		<253 6000		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
431	1305		12	SI951000766	DUP	BE-F-01		<24 9850		<25 3600		5072 0000	05/24/95	13:56	RB	0 005	ICP-FD1			
432	1305		12	SI951000766	DUP	BI-F-01		<499 7000		<507 7000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
433	1305		12	SI951000766	DUP	CA-F-01		1154 4103		1126 6470		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
434	1305		12	SI951000766	DUP	CD-F-01		<49 9700		<50 7200		5072 0000	05/24/95	13:56	RB	0 01	ICP-FD1			
435	1305		12	SI951000766	DUP	CE-F-01		<499 7000		<507 7000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
436	1305		12	SI951000766	DUP	CL-F-01		<99 9400		<101 4410		5072 0000	05/24/95	13:56	RB	0 02	ICP-FD1			
437	1305		12	SI951000766	DUP	CO-F-01		142 5103		117 4609		5072 0000	05/24/95	13:56	RB	0 01	ICP-FD1			
438	1305		12	SI951000766	DUP	CR-F-01		<49 9700		<50 7200		5072 0000	05/24/95	13:56	RB	0 01	ICP-FD1			
439	1305		12	SI951000766	DUP	CU-F-01		2141 1074		2097 1487		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
440	1305		12	SI951000766	DUP	EU-F-01		7804887 0000		4758 0000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
441	1305		12	SI951000766	DUP	FE-F-01		<249 8500		<25 3600		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
442	1305		12	SI951000766	DUP	K-F-01		<49 9700		<50 7200		5072 0000	05/24/95	13:56	RB	0 01	ICP-FD1			
443	1305		12	SI951000766	DUP	LA-F-01		<499 7000		<507 7000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
444	1305		12	SI951000766	DUP	LI-F-01		108 9283		110 1263		5072 0000	05/24/95	13:56	RB	0 01	ICP-FD1			
445	1305		12	SI951000766	DUP	MG-F-01		<249 8500		<253 6000		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
446	1305		12	SI951000766	DUP	MN-F-01		113021 7422		112256 8906		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
447	1305		12	SI951000766	DUP	MO-F-01		<499 7000		<507 7000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
448	1305		12	SI951000766	DUP	NA-F-01		7793 6799		4973 5720		5072 0000	05/24/95	13:56	RB	0 02	ICP-FD1			
449	1305		12	SI951000766	DUP	NI-F-01		26172 6172		19577 6875		5072 0000	05/24/95	13:56	RB	0 2	ICP-FD1			
450	1305		12	SI951000766	DUP	P-F-01		<499 7000		<507 7000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
451	1305		12	SI951000766	DUP	PB-F-01		6578 7227		6514 0503		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
452	1305		12	SI951000766	DUP	S-F-01		<999 4000		<1014 4000		5072 0000	05/24/95	13:56	RB	0 2	ICP-FD1			
453	1305		12	SI951000766	DUP	SB-F-01		<999 4000		<1014 4000		5072 0000	05/24/95	13:56	RB	0 2	ICP-FD1			
454	1305		12	SI951000766	DUP	SE-F-01		<499 7000		<507 7000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
455	1305		12	SI951000766	DUP	SI-F-01		771 2600		735 9513		5072 0000	05/24/95	13:56	RB	0 05	ICP-FD1			
456	1305		12	SI951000766	DUP	SM-F-01		<499 7000		<507 7000		5072 0000	05/24/95	13:56	RB	0 1	ICP-FD1			
457	1305		12	SI951000766	DUP	SN-F-01		673 2586		658 6548		5072 0000	05/24/95	13:56	RB	0 01	ICP-FD1			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
460	1305		12 S957000769		DUP	TI-F-01		449 9700		<50 7200		5072 0000	05/24/95	13:56	Bq	0.01	ICP-F01			
461	1305		12 S957000769		DUP	TL-F-01		<999 4000		<1014 4000		5072 0000	05/24/95	13:56	Bq	0.2	ICP-F01			
462	1305		12 S957000769		DUP	LI-F-01		26153 5781		26334 1465		5072 0000	05/24/95	13:56	Bq	0.4	ICP-F01			
463	1305		12 S957000769		DUP	V-F-01		<249 8500		<253 6000		5072 0000	05/24/95	13:56	Bq	0.05	ICP-F01			
464	1305		12 S957000769		DUP	ZN-F-01		127 4066		185 9960		5072 0000	05/24/95	13:56	Bq	0.01	ICP-F01			
465	1305		12 S957000769		DUP	ZR-F-01		449 8700		<50 7200		5072 0000	05/24/95	13:56	Bq	0.01	ICP-F01			
466	1305		13 S957000769_A			AG-F-01		5000 0		3763 2219		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
467	1305		13 S957000769_A			AL-F-01		5000 0		4836 062		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
468	1305		13 S957000769_A			AS-F-01		5000 0		5037 8438		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
469	1305		13 S957000769_A			B-F-01		5000 0		4734 9990		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
470	1305		13 S957000769_A			BA-F-01		5000 0		4940 7983		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
471	1305		13 S957000769_A			BE-F-01		5000 0		4864 2437		4997 0000	05/24/95	14:00	Bq	0.005	ICP-F01			
472	1305		13 S957000769_A			BI-F-01		5000 0	<	490 7		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
473	1305		13 S957000769_A			CA-F-01		5000 0		4905 0213		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
474	1305		13 S957000769_A			CD-F-01		5000 0		4887 1304		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
475	1305		13 S957000769_A			CE-F-01		5000 0		4793 5147		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
476	1305		13 S957000769_A			CO-F-01		5000 0		4829 3467		4997 0000	05/24/95	14:00	Bq	0.02	ICP-F01			
477	1305		13 S957000769_A			CR-F-01		5000 0		4916 9012		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
478	1305		13 S957000769_A			CU-F-01		5000 0		4814 1079		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
479	1305		13 S957000769_A			FE-F-01		5000 0		4556 9863		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
480	1305		13 S957000769_A			K-F-01		0 0		7736719 5000		4997 0000	05/24/95	14:00	Bq	0.5	ICP-F01			
481	1305		13 S957000769_A			LA-F-01		5000 0		4761 8218		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
482	1305		13 S957000769_A			LI-F-01		5000 0		4750 0327		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
483	1305		13 S957000769_A			MG-F-01		5000 0		4961 7021		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
484	1305		13 S957000769_A			MN-F-01		5000 0		4983 8342		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
485	1305		13 S957000769_A			MO-F-01		5000 0		4932 0718		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
486	1305		13 S957000769_A			NA-F-01		0 0		117757 5038		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
487	1305		13 S957000769_A			NO-F-01		5000 0		4874 0869		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
488	1305		13 S957000769_A			NI-F-01		5000 0		4355 4111		4997 0000	05/24/95	14:00	Bq	0.02	ICP-F01			
489	1305		13 S957000769_A			P-F-01		5000 0		4548 3441		4997 0000	05/24/95	14:00	Bq	0.2	ICP-F01			
490	1305		13 S957000769_A			PB-F-01		5000 0		5356 9404		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
491	1305		13 S957000769_A			SI-F-01		5000 0		4931 4013		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
492	1305		13 S957000769_A			SB-F-01		5000 0		4723 8436		4997 0000	05/24/95	14:00	Bq	0.2	ICP-F01			
493	1305		13 S957000769_A			SE-F-01		5000 0		3381 7173		4997 0000	05/24/95	14:00	Bq	0.2	ICP-F01			
494	1305		13 S957000769_A			SI-F-01		5000 0		4767 5325		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
495	1305		13 S957000769_A			SM-F-01		5000 0		4748 7817		4997 0000	05/24/95	14:00	Bq	0.1	ICP-F01			
496	1305		13 S957000769_A			SR-F-01		5000 0		4659 4352		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
497	1305		13 S957000769_A			TI-F-01		5000 0		4713 0981		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
498	1305		13 S957000769_A			TL-F-01		5000 0		4525 1309		4997 0000	05/24/95	14:00	Bq	0.2	ICP-F01			
499	1305		13 S957000769_A			U-F-01		10000 0		9690 3201		4997 0000	05/24/95	14:00	Bq	0.4	ICP-F01			
500	1305		13 S957000769_A			V-F-01		5000 0		4949 4740		4997 0000	05/24/95	14:00	Bq	0.05	ICP-F01			
501	1305		13 S957000769_A			ZN-F-01		5000 0		4937 205		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
502	1305		13 S957000769_A			ZR-F-01		5000 0		4771 9418		4997 0000	05/24/95	14:00	Bq	0.01	ICP-F01			
503	1305		14		ICSA	AG				0 0017		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
504	1305		14		ICSA	AL				247 0492		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
505	1305		14		ICSA	AS				-0 0699		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
506	1305		14		ICSA	B				-0 0058		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
507	1305		14		ICSA	BA				0 0038		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
508	1305		14		ICSA	BE				0 0001		1 0000	05/24/95	14:04	Bq	0.005	ICP-QC			
509	1305		14		ICSA	BI				0 0550		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
510	1305		14		ICSA	CA				248 8739		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
511	1305		14		ICSA	CD				-0 0014		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
512	1305		14		ICSA	CE				0 0230		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
513	1305		14		ICSA	CO				0 0009		1 0000	05/24/95	14:04	Bq	0.02	ICP-QC			
514	1305		14		ICSA	CR				-0 0068		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
515	1305		14		ICSA	CU				-0 0080		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
516	1305		14		ICSA	EU				0 0341		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
517	1305		14		ICSA	FE				93 4643		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
518	1305		14		ICSA	K				0 2473		1 0000	05/24/95	14:04	Bq	0.5	ICP-QC			
519	1305		14		ICSA	LA				-0 0015		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
520	1305		14		ICSA	LI				0 0018		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
521	1305		14		ICSA	MG				255 1065		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
522	1305		14		ICSA	MN				-0 0071		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
523	1305		14		ICSA	MO				0 0123		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
524	1305		14		ICSA	NA				197 2737		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
525	1305		14		ICSA	NO				0 0145		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
526	1305		14		ICSA	NI				0 0282		1 0000	05/24/95	14:04	Bq	0.02	ICP-QC			
527	1305		14		ICSA	P				0 0888		1 0000	05/24/95	14:04	Bq	0.2	ICP-QC			
528	1305		14		ICSA	PB				0 0377		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
529	1305		14		ICSA	SI				0 0292		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
530	1305		14		ICSA	SB				-0 0934		1 0000	05/24/95	14:04	Bq	0.2	ICP-QC			
531	1305		14		ICSA	SE				0 2611		1 0000	05/24/95	14:04	Bq	0.2	ICP-QC			
532	1305		14		ICSA	SI				0 0357		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
533	1305		14		ICSA	SM				-0 0107		1 0000	05/24/95	14:04	Bq	0.1	ICP-QC			
534	1305		14		ICSA	SR				-0 0003		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
535	1305		14		ICSA	TI				0 0071		1 0000	05/24/95	14:04	Bq	0	ICP-QC			
536	1305		14		ICSA	TL				0 0013		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
537	1305		14		ICSA	U				-0 0283		1 0000	05/24/95	14:04	Bq	0.2	ICP-QC			
538	1305		14		ICSA	V				0 1425		1 0000	05/24/95	14:04	Bq	0.4	ICP-QC			
539	1305		14		ICSA	Y				-0 0024		1 0000	05/24/95	14:04	Bq	0.05	ICP-QC			
540	1305		14		ICSA	ZN				0 0172		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
541	1305		14		ICSA	ZR				-0 0274		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
542	1305		15		ICSAB	AG				-0 0015		1 0000	05/24/95	14:04	Bq	0.01	ICP-QC			
543	1305		15		ICSAB	AL				0 9646		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
544	1305		15		ICSAB	AS				246 3310		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
545	1305		15		ICSAB	B				-0 0807		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
546	1305		15		ICSAB	BA				-0 0021		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
547	1305		15		ICSAB	BE				0 4726		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
548	1305		15		ICSAB	BI				0 4822		1 0000	05/24/95	14:07	Bq	0.005	ICP-QC			
549	1305		15		ICSAB	CA				0 0386		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
550	1305		15		ICSAB	CD				245 8403		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
551	1305		15		ICSAB	CE				0 9451		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
552	1305		15		ICSAB	CO				0 0234		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
553	1305		15		ICSAB	CR				0 4655		1 0000	05/24/95	14:07	Bq	0.02	ICP-QC			
554	1305		15		ICSAB	CU				0 4673		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
555	1305		15		ICSAB	EU				0 4670		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
556	1305		15		ICSAB	F				0 0412		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
557	1305		15		ICSAB	FE				91 6557		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
558	1305		15		ICSAB	K				-0 165		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
559	1305		15		ICSAB	LA				-0 0018		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
560	1305		15		ICSAB	LI				1 0199		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
561	1305		15		ICSAB	MG				45 1441		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
562	1305		15		ICSAB	MN				1 4664		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
563	1305		15		ICSAB	MO				-0 151		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
564	1305		15		ICSAB	NA				197 5418		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
565	1305		15		ICSAB	NO				0 0178		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
566	1305		15		ICSAB	NI				0 8994		1 0000	05/24/95	14:07	Bq	0.02	ICP-QC			
567	1305		15		ICSAB	P				0 0742		1 0000	05/24/95	14:07	Bq	0.2	ICP-QC			
568	1305		15		ICSAB	PB				0 9587		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
569	1305		15		ICSAB	S				-0 0062		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
570	1305		15		ICSAB	SE				-0 0603		1 0000	05/24/95	14:07	Bq	0.2	ICP-QC			
571	1305		15		ICSAB	SI				0 0628		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
572	1305		15		ICSAB	SM				0 0383		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
573	1305		15		ICSAB	SR				-0 0176		1 0000	05/24/95	14:07	Bq	0.1	ICP-QC			
574	1305		15		ICSAB	TI				-0 0033		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
575	1305		15		ICSAB	TL				-0 0144		1 0000	05/24/95	14:07	Bq	0	ICP-QC			
576	1305		15		ICSAB	U				0 0015		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
577	1305		15		ICSAB	V				0 0406		1 0000	05/24/95	14:07	Bq	0.2	ICP-QC			
578	1305		15		ICSAB	Y				0 1455		1 0000	05/24/95	14:07	Bq	0.4	ICP-QC			
579	1305		15		ICSAB	ZN				0 4649		1 0000	05/24/95	14:07	Bq	0.05	ICP-QC			
580	1305		15		ICSAB	ZR				0 0186		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
581	1305		16		CCV	AG				0 9406		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
582	1305		16		CCV	AL				-0 0024		1 0000	05/24/95	14:07	Bq	0.01	ICP-QC			
583	1305		16		CCV	AS				5 0889		1 0000	05/24/95	14:12	Bq	0.01	ICP-QC			
584	1305		16		CCV	B				5 1367		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
585	1305		16		CCV	BA				5 2089		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
586	1305		16		CCV	BE				5 1141		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
587	1305		16		CCV	BI				5 1177		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
588	1305		16		CCV	CA				5 3059		1 0000	05/24/95	14:12	Bq	0.005	ICP-QC			
589	1305		16		CCV	CD				5 1440		1 0000	05/24/95	14:12	Bq	0.1	ICP-QC			
590	1305		16		CCV	CE				5 2070		1 0000	05/24/95	14:12	Bq	0.1	ICP-QC			
591	1305		16		CCV	CO				5 1807		1 0000	05/24/95	14:12	Bq	0.01	ICP-QC			
592	1305		16		CCV	CR				5 2151		1 0000	05/24/95	14:12	Bq	0.1	ICP-QC			
593	1305		16		CCV	CU				5 1716		1 0000	05/24/95	14:12	Bq	0.02	ICP-QC			
594	1305		16		CCV	EU				5 2059		1 0000	05/24/95	14:12	Bq	0.01	ICP-QC			
595	1305		16		CCV	F				5 1786		1 0000	05/24/95	14:12	Bq	0.01	ICP-QC			
596	1305		16		CCV	FE				5 0102		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
597	1305		16		CCV	K				5 1954		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
598	1305		16		CCV	LA				5 1986		1 0000	05/24/95	14:12	Bq	0.3	ICP-QC			
599	1305		16		CCV	LI				5 1954		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
600	1305		16		CCV	MG				5 2470		1 0000	05/24/95	14:12	Bq	0.01	ICP-QC			
601	1305		16		CCV	MN				5 1133		1 0000	05/24/95	14:12	Bq	0.1	ICP-QC			
602	1305		16		CCV	MO				5 0762		1 0000	05/24/95	14:12	Bq	0.01	ICP-QC			
603	1305		16		CCV	NA				5 1726		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
604	1305		16		CCV	NO				5 1486		1 0000	05/24/95	14:12	Bq	0.1	ICP-QC			
605	1305		16		CCV	NI				5 3452		1 0000	05/24/95	14:12	Bq	0.1	ICP-QC			
606	1305		16		CCV	P				5 1954		1 0000	05/24/95	14:12	Bq	0.02	ICP-QC			
607	1305		16		CCV	PB				5 2016		1 0000	05/24/95	14:12	Bq	0.2	ICP-QC			
608	1305		16		CCV	S				5 1470		1 0000	05/24/95	14:12	Bq	0.1	ICP-QC			
609	1305		16		CCV	SI				5 1113		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			
610	1305		16		CCV	SB				4 9031		1 0000	05/24/95	14:12	Bq	0.2	ICP-QC			
611	1305		16		CCV	SE				5 2366		1 0000	05/24/95	14:12	Bq	0.2	ICP-QC			
612	1305		16		CCV	SI				4 8192		1 0000	05/24/95	14:12	Bq	0.05	ICP-QC			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
413	1995	16			CCV	SM				5.2028		1.0000	05/24/95	14:12	mg	0.1	@ICP-QC			
414	1995	16			CCV	SR				5.1058		1.0000	05/24/95	14:12	mg	0.01	@ICP-QC			
415	1995	16			CCV	TH				-0.0290		1.0000	05/24/95	14:12	mg	-0	@ICP-QC			
416	1995	16			CCV	TI				5.0117		1.0000	05/24/95	14:12	mg	0.01	@ICP-QC			
417	1995	16			CCV	TL				5.0674		1.0000	05/24/95	14:12	mg	0.2	@ICP-QC			
418	1995	16			CCV	U				10.3455		1.0000	05/24/95	14:12	mg	0.4	@ICP-QC			
419	1995	16			CCV	V				4.9655		1.0000	05/24/95	14:12	mg	0.05	@ICP-QC			
420	1995	16			CCV	Y				5.0125		1.0000	05/24/95	14:12	mg	0.01	@ICP-QC			
421	1995	16			CCV	ZN				5.1888		1.0000	05/24/95	14:12	mg	0.01	@ICP-QC			
422	1995	16			CCV	ZR				5.1028		1.0000	05/24/95	14:12	mg	0.01	@ICP-QC			
423	1995	17			CCB	AG				0.0001		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
424	1995	17			CCB	AL				-0.0015		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
425	1995	17			CCB	AS				-0.0108		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
426	1995	17			CCB	B				-0.0030		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
427	1995	17			CCB	BA				0.0001		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
428	1995	17			CCB	BE				-0.0001		1.0000	05/24/95	14:16	mg	0.005	@ICP-QC			
429	1995	17			CCB	BI				0.0073		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
430					CCB	CA				-0.0013		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
431	1995	17			CCB	CD				-0.0013		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
432	1995	17			CCB	CE				0.0003		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
433	1995	17			CCB	CO				-0.0009		1.0000	05/24/95	14:16	mg	0.02	@ICP-QC			
434	1995	17			CCB	CR				-0.0004		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
435	1995	17			CCB	CU				0.0004		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
436	1995	17			CCB	EU				-0.0003		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
437	1995	17			CCB	FE				-0.0017		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
438	1995	17			CCB	K				0.1178		1.0000	05/24/95	14:16	mg	0.3	@ICP-QC			
439	1995	17			CCB	LA				0.0010		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
440	1995	17			CCB	LI				-0.0005		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
441	1995	17			CCB	MG				-0.0018		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
442	1995	17			CCB	MN				-0.0001		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
443	1995	17			CCB	MO				-0.0014		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
444	1995	17			CCB	NA				-0.0018		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
445	1995	17			CCB	NO				0.0009		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
446	1995	17			CCB	NI				-0.0079		1.0000	05/24/95	14:16	mg	0.02	@ICP-QC			
447	1995	17			CCB	P				0.0065		1.0000	05/24/95	14:16	mg	0.2	@ICP-QC			
448	1995	17			CCB	PB				-0.0186		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
449	1995	17			CCB	S				-0.0093		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
450	1995	17			CCB	SB				-0.0107		1.0000	05/24/95	14:16	mg	0.2	@ICP-QC			
451	1995	17			CCB	SE				-0.0008		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
452	1995	17			CCB	SI				0.0092		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
453	1995	17			CCB	SM				-0.0040		1.0000	05/24/95	14:16	mg	0.1	@ICP-QC			
454	1995	17			CCB	SR				-0.0000		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
455	1995	17			CCB	TH				-0.0010		1.0000	05/24/95	14:16	mg	-0	@ICP-QC			
456	1995	17			CCB	TI				0.0005		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
457	1995	17			CCB	TL				-0.0038		1.0000	05/24/95	14:16	mg	0.2	@ICP-QC			
458	1995	17			CCB	U				-0.0105		1.0000	05/24/95	14:16	mg	0.4	@ICP-QC			
459	1995	17			CCB	V				-0.0012		1.0000	05/24/95	14:16	mg	0.05	@ICP-QC			
460	1995	17			CCB	Y				-0.0004		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
461	1995	17			CCB	ZN				-0.0001		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			
462	1995	17			CCB	ZR				-0.0001		1.0000	05/24/95	14:16	mg	0.01	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

8 05/11/95

File # C950524

LABCORE Data Entry Template for Worklist# 1306

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 **Book#** 4184/3

Method: LA-505-~~151~~ 161 Rev/Mod A-1

Worklist Comment: ICP BX-109 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T000772	0	F	@ICP-F01	SOLID	95000057	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
7	DUP	S95T000772	0	F	@ICP-F01	SOLID		
8	SPK	S95T000772	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T000775	0	F	@ICP-F01	SOLID	95000057	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
12	DUP	S95T000775	0	F	@ICP-F01	SOLID		

Data Entry Comments:

B 05/26/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1306

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T000775	0	F	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 1306

5-24-95
Analyst Signature Date

Analyst Signature Date

		D.F.
PREPBLKTSA	1mL - 5mL	10
S95T000772	.5005g in 25mL-1mL-5mL	4995
5X	2mL - 5mL	24975
S95T000772-D	.5008g in 25mL-1mL-2mL	4992
S95T000772-A	.5005g in 25mL ~~+ 5mL~~ -1-2-7	4995

S95T000775	.4940g in 25mL-1mL-5mL	5061
5X	2mL-5mL	25304
S95T000775-D	.4944g in 25mL-1mL-5mL	5057
S95T000775-A	.4940g in 25mL-1mL-2mL-2mL	5061

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950524C	ICP2	05/24/95	14:50	BJG	Q	CONC
2	ICB	950524C	ICP2	05/24/95	14:56	BJG	Q	CONC
3	ICSA	950524C	ICP2	05/24/95	14:59	BJG	Q	CONC
4	ICSAB	950524C	ICP2	05/24/95	15:03	BJG	Q	CONC
5	PREPBLKTJA	950524C	ICP2	05/24/95	15:11	BJG	S	CONC
6	S95T000772_L	950524C	ICP2	05/24/95	15:16	BJG	S	CONC
7	S95T000772	950524C	ICP2	05/24/95	15:19	BJG	S	CONC
8	S95T000772_D	950524C	ICP2	05/24/95	15:23	BJG	S	CONC
9	S95T000772_A	950524C	ICP2	05/24/95	15:26	BJG	S	CONC
10	CCV	950524C	ICP2	05/24/95	15:31	BJG	Q	CONC
11	CCB	950524C	ICP2	05/24/95	15:35	BJG	Q	CONC
12	S95T000775_L	950524C	ICP2	05/24/95	15:39	BJG	S	CONC
13	S95T000775	950524C	ICP2	05/24/95	15:43	BJG	S	CONC
14	S95T000775_D	950524C	ICP2	05/24/95	15:47	BJG	S	CONC
15	S95T000775_A	950524C	ICP2	05/24/95	15:51	BJG	S	CONC
16	ICSA	950524C	ICP2	05/24/95	15:55	BJG	Q	CONC
17	ICSAB	950524C	ICP2	05/24/95	15:58	BJG	Q	CONC
18	CCV_1	950524C	ICP2	05/24/95	16:03	BJG	Q	CONC
19	CCB_1	950524C	ICP2	05/24/95	16:06	BJG	Q	CONC

BJG 5-24-95
BX-105 FUSION
S95T000772, 775
1mL - 1mL, 5X

BEST AVAILABLE COPY

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 516 TO 524.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.030	5.052	5.248	5.078	5.013	5.272
2	ICB	.0006	.0090	.0031	.0029	.0001	.0001
3	ICSA	-.0013	241.3	-.0567	.0026	.0033	-.0001
4	ICSAB	.9507	241.2	-.0054	.0038	.4610	.4734
5	PREPBLKTJA	.0098	.2830	.1395	.0043	.0096	-.0037
6	S95T000772_L	-29.21	919.8	-143.2	-34.18	60.78	-8.202
7	S95T000772	-.7009	946.0	41.74	36.11	61.56	-.3812
8	S95T000772_D	-.2283	824.7	56.28	52.44	62.23	-.9101
9	S95T000772_A	3536.	5641.	5094.	4767.	4577.	4888.
10	CCV	5.002	5.078	5.175	5.062	5.020	5.231
11	CCB	.0030	.0092	.0090	.0039	.0001	.0001
12	S95T000775_L	1.086	2812.	308.3	-.9259	37.13	-5.540
13	S95T000775	-1.694	2476.	65.97	23.88	35.15	-.5579
14	S95T000775_D	3.012	2344.	53.15	40.50	33.43	-.9446
15	S95T000775_A	3658.	7334.	5260.	4869.	4695.	5062.
16	ICSA	.0031	241.5	-.0406	.0010	.0034	-.0001
17	ICSAB	.9418	241.0	-.0513	-.0023	.4588	.4719
18	CCV_1	4.996	5.047	5.163	5.029	5.002	5.210
19	CCB_1	.0023	.0054	.0059	.0039	.0002	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.112	5.249	5.247	5.121	5.219	5.232
2	ICB	-.0079	-.0005	.0015	.0020	-.0001	.0006
3	ICSA	.0633	240.8	-.0002	.0124	-.0010	-.0047
4	ICSAB	.0550	244.3	.9370	.0086	.4628	.4622
5	PREPBLKTJA	-9.378	.8863	.0098	.0669	.0071	.0155
6	S95T000772_L	-3974.	1885.	-6.730	-81.03	-14.42	184.2
7	S95T000772	-3834.	2412.	2.378	24.22	2.456	186.7
8	S95T000772_D	-4990.	2175.	-6.370	-18.76	-8.547	168.8
9	S95T000772_A	943.7	7215.	4911.	4765.	4860.	5111.
10	CCV	5.153	5.134	5.130	5.140	5.117	5.134
11	CCB	-.0012	-.0053	-.0001	-.0000	-.0014	-.0002
12	S95T000775_L	-3108.	330.2	-9.502	144.6	3.956	183.9
13	S95T000775	-2955.	1042.	-3.165	8.286	-1.569	168.0
14	S95T000775_D	-2752.	990.9	-7.416	69.71	5.834	160.5
15	S95T000775_A	2303.	6290.	5113.	4931.	5066.	5290.
16	ICSA	.0375	246.7	-.0004	.0196	-.0009	-.0051
17	ICSAB	.0434	240.7	.9236	.0124	.4579	.4578
18	CCV_1	5.153	5.150	5.117	5.103	5.112	5.129
19	CCB_1	.0001	.0034	.0004	.0112	-.0014	.0006

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.098	.0119	5.215	4.837	5.101	4.997
2	ICB	-.0002	-.0004	-.0003	-.0984	.0008	.0000
3	ICSA	-.0087	.0476	90.96	-.0641	-.0029	.0016
4	ICSAB	.4776	.0432	91.45	.0203	-.0039	.9869
5	PREPBLKTJA	.0644	.0183	.1643	13550.	.0078	.0073
6	S95T000772_L	66.62	-.0610	30910.	6354e3	-10.34	9.135
7	S95T000772	55.66	9.260	30040.	5990e3	10.55	16.44

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	Cu	Eu	Fe	K	La	Li
8	S95T000772_D	86.46	.5592	27940.	7376e3	5.600	10.04
9	S95T000772_A	4785.	17.07	34230.	5982e3	4710.	4572.
10	CCV	5.136	.0112	5.146	5.251	5.123	5.153
11	CCB	-.0004	-.0013	-.0015	-.0591	.0006	-.0008
12	S95T000775_L	47.72	-55.81	19980.	5119e3	23.33	-43.96
13	S95T000775	44.04	-2.808	19760.	4900e3	11.88	7.867
14	S95T000775_D	45.02	2.696	18620.	4590e3	14.95	6.936
15	S95T000775_A	4884.	17.46	25190.	4849e3	4860.	4676.
16	ICSA	-.0089	.0378	92.14	-.0382	-.0026	.0019
17	ICSAB	.4798	.0492	90.69	-.0439	-.0026	.9933
18	CCV_1	5.110	.0116	5.122	4.945	5.111	5.143
19	CCB_1	-.0006	.0001	.0001	-.1046	.0017	.0005

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.031	5.117	5.222	4.952	5.215	5.221
2	ICB	.0084	-.0000	-.0002	-.0034	.0010	-.0026
3	ICSA	247.6	-.0069	-.0126	192.2	.0179	-.0310
4	ICSAB	247.1	.4424	-.0154	191.2	.0172	.9173
5	PREPBLKTJA	.3604	.0331	-.0128	4.841	.0496	8.345
6	S95T000772_L	823.4	142.2	-44.01	113200.	39.20	3531.
7	S95T000772	612.5	144.3	-7.872	107200.	24.51	3576.
8	S95T000772_D	549.6	131.0	-15.76	110200.	16.20	4856.
9	S95T000772_A	5183.	4803.	4973.	111900.	4829.	8374.
10	CCV	5.051	5.011	5.139	5.049	5.267	5.091
11	CCB	.0058	.0000	.0007	-.0068	-.0004	-.0044
12	S95T000775_L	737.0	85.97	-19.14	97360.	35.70	5300.
13	S95T000775	363.7	100.6	-7.836	94070.	27.49	5233.
14	S95T000775_D	387.0	97.03	2.260	88040.	35.48	4903.
15	S95T000775_A	5126.	4965.	5166.	97220.	4982.	10390.
16	ICSA	248.4	-.0065	-.0148	190.9	.0150	-.0228
17	ICSAB	246.7	.4370	-.0172	192.0	.0175	.8818
18	CCV_1	5.025	5.003	5.129	5.054	5.251	5.099
19	CCB_1	.0141	.0002	-.0029	-.0004	.0015	-.0019

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.238	5.245	5.148	4.907	5.244	4.832
2	ICB	-.0240	.0054	-.0160	.0165	.0083	.0013
3	ICSA	.0515	.0425	.0175	.0141	.0826	.0284
4	ICSAB	.0613	.9980	.0259	-.0033	.0958	.0342
5	PREPBLKTJA	-.0297	.4548	.1019	-.0350	-2.525	.3285
6	S95T000772_L	22450.	1114.	6373.	197.0	-1072.	553.1
7	S95T000772	23520.	936.8	6182.	87.70	-1087.	928.3
8	S95T000772_D	22510.	684.0	6371.	15.80	-1514.	841.5
9	S95T000772_A	28610.	5581.	11060.	4719.	3696.	5630.
10	CCV	5.263	5.122	5.098	4.849	5.193	4.770
11	CCB	-.0180	-.0043	-.0055	.0077	.0128	.0001
12	S95T000775_L	15690.	426.8	5482.	52.10	-689.7	41200.
13	S95T000775	16670.	688.2	5570.	48.26	-992.7	42220.
14	S95T000775_D	15670.	745.5	5245.	55.54	-902.0	40290.
15	S95T000775_A	21820.	5985.	10730.	4842.	4142.	48250.

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	.0684	.0639	.0173	.0300	.0842	.0319
17	ICSAB	.0621	.9584	.0255	.0087	.0659	.0274
18	CCV_1	5.217	5.108	5.078	4.840	5.124	4.761
19	CCB_1	-.0188	.0101	-.0090	.0084	.0153	.0040

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.108	4.995	-.0177	4.976	5.066	10.08
2	ICB	-.0017	-.0002	.0032	-.0004	.0093	-.0048
3	ICSA	-.0127	-.0033	-.0110	.0006	.0001	.1693
4	ICSAB	-.0078	-.0033	-.0149	.0002	.0217	.1598
5	PREPBLKTJA	.1249	-.0016	.2281	.0171	.0657	-3.272
6	S95T000772_L	29.32	963.4	140.0	15.89	373.0	17130.
7	S95T000772	88.84	917.4	106.2	33.94	-65.17	16250.
8	S95T000772_D	-20.16	872.9	139.0	32.70	-35.64	16370.
9	S95T000772_A	4708.	5514.	122.3	4699.	4760.	25290.
10	CCV	5.152	5.025	-.0155	4.963	5.011	10.15
11	CCB	-.0105	-.0002	.0074	-.0004	-.0042	-.0298
12	S95T000775_L	-455.3	686.9	412.0	-.6679	-124.1	21970.
13	S95T000775	-12.75	679.7	106.1	41.73	-57.87	22750.
14	S95T000775_D	32.52	639.4	96.97	40.70	-8.014	21450.
15	S95T000775_A	4854.	5425.	90.28	4864.	4942.	32230.
16	ICSA	-.0092	-.0035	-.0044	.0002	.0180	.1314
17	ICSAB	-.0120	-.0033	-.0090	.0006	.0181	.1508
18	CCV_1	5.120	5.010	-.0207	4.949	4.938	10.13
19	CCB_1	-.0001	-.0002	.0051	.0000	.0038	.0050

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.976	.0132	5.226	5.089
2	ICB	-.0002	-.0002	.0002	-.0011
3	ICSA	-.0021	.0169	-.0252	-.0031
4	ICSAB	.4637	.0169	.9386	-.0021
5	PREPBLKTJA	.0438	.0078	.0640	.0235
6	S95T000772_L	19.27	11.75	420.9	-10.05
7	S95T000772	27.20	15.66	213.8	17.27
8	S95T000772_D	5.455	10.56	193.9	-4.721
9	S95T000772_A	4707.	25.84	5143.	4745.
10	CCV	4.930	.0126	5.134	5.058
11	CCB	-.0015	-.0008	.0015	-.0036
12	S95T000775_L	-88.93	-19.83	337.0	-125.1
13	S95T000775	3.519	11.11	241.6	-4.764
14	S95T000775_D	14.94	13.48	160.0	-.0647
15	S95T000775_A	4886.	28.56	5272.	4911.
16	ICSA	-.0006	.0171	-.0243	-.0034
17	ICSAB	.4610	.0165	.9253	-.0043
18	CCV_1	4.921	.0127	5.126	5.052
19	CCB_1	-.0002	-.0001	.0003	-.0001

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1308	1			ICV	AG				5.0397			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
2	1308	1			ICV	AL				5.0623			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
3	1308	1			ICV	AS				5.2478			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
4	1308	1			ICV	B				5.0784			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
5	1308	1			ICV	BA				5.0128			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
6	1308	1			ICV	BE				5.2723			1.0000	05/24/95	14:50	###	0.005	@ICP-OC			
7	1308	1			ICV	BI				5.1121			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
8	1308	1			ICV	CA				5.2464			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
9	1308	1			ICV	CD				5.2475			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
10	1308	1			ICV	CE				5.1207			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
11	1308	1			ICV	CO				5.2183			1.0000	05/24/95	14:50	###	0.02	@ICP-OC			
12	1308	1			ICV	CR				5.2319			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
13	1308	1			ICV	CU				5.0875			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
14	1308	1			ICV	EU				5.0119			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
15	1308	1			ICV	FE				5.2153			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
16	1308	1			ICV	K				4.8967			1.0000	05/24/95	14:50	###	0.2	@ICP-OC			
17	1308	1			ICV	LA				5.1016			1.0000	05/24/95	14:50	###	0.02	@ICP-OC			
18	1308	1			ICV	LI				4.9974			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
19	1308	1			ICV	MG				5.0006			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
20	1308	1			ICV	MN				5.1174			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
21	1308	1			ICV	MO				5.2220			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
22	1308	1			ICV	NA				4.9818			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
23	1308	1			ICV	ND				5.2163			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
24	1308	1			ICV	NI				5.2216			1.0000	05/24/95	14:50	###	0.02	@ICP-OC			
25	1308	1			ICV	P				5.2379			1.0000	05/24/95	14:50	###	0.2	@ICP-OC			
26	1308	1			ICV	PB				5.3462			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
27	1308	1			ICV	S				5.1485			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
28	1308	1			ICV	SB				4.9075			1.0000	05/24/95	14:50	###	0.2	@ICP-OC			
29	1308	1			ICV	SE				5.3445			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
30	1308	1			ICV	SI				4.8320			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
31	1308	1			ICV	SM				5.1078			1.0000	05/24/95	14:50	###	0.1	@ICP-OC			
32	1308	1			ICV	SR				4.9850			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
33	1308	1			ICV	TH				-0.0177			1.0000	05/24/95	14:50	###	0	@ICP-OC			
34	1308	1			ICV	TI				4.9795			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
35	1308	1			ICV	TL				5.0858			1.0000	05/24/95	14:50	###	0.2	@ICP-OC			
36	1308	1			ICV	U				10.0629			1.0000	05/24/95	14:50	###	0.4	@ICP-OC			
37	1308	1			ICV	V				4.9761			1.0000	05/24/95	14:50	###	0.05	@ICP-OC			
38	1308	1			ICV	Y				5.0152			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
39	1308	1			ICV	ZN				5.2295			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
40	1308	1			ICV	ZR				5.0880			1.0000	05/24/95	14:50	###	0.01	@ICP-OC			
41	1308	2			ICB	AG				0.0028			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
42	1308	2			ICB	AL				0.0080			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
43	1308	2			ICB	AS				0.0031			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
44	1308	2			ICB	B				0.0039			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
45	1308	2			ICB	BA				0.0001			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
46	1308	2			ICB	BE				0.0001			1.0000	05/24/95	14:58	###	0.005	@ICP-OC			
47	1308	2			ICB	BI				-0.0078			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
48	1308	2			ICB	CA				-0.0026			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
49	1308	2			ICB	CD				0.0015			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
50	1308	2			ICB	CE				0.0020			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
51	1308	2			ICB	CO				-0.0001			1.0000	05/24/95	14:58	###	0.02	@ICP-OC			
52	1308	2			ICB	CR				0.0006			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
53	1308	2			ICB	CU				-0.0022			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
54	1308	2			ICB	EU				-0.0004			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
55	1308	2			ICB	FE				-0.0003			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
56	1308	2			ICB	K				-0.0864			1.0000	05/24/95	14:58	###	0.3	@ICP-OC			
57	1308	2			ICB	LA				0.0008			1.0000	05/24/95	14:58	###	0.02	@ICP-OC			
58	1308	2			ICB	LI				0.0000			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
59	1308	2			ICB	MG				0.0044			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
60	1308	2			ICB	MN				-0.0000			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
61	1308	2			ICB	MO				-0.0002			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
62	1308	2			ICB	NA				-0.0034			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
63	1308	2			ICB	ND				0.0010			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
64	1308	2			ICB	NI				-0.0026			1.0000	05/24/95	14:58	###	0.02	@ICP-OC			
65	1308	2			ICB	P				-0.0240			1.0000	05/24/95	14:58	###	0.2	@ICP-OC			
66	1308	2			ICB	PB				0.0034			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
67	1308	2			ICB	S				-0.0161			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
68	1308	2			ICB	SB				0.0185			1.0000	05/24/95	14:58	###	0.2	@ICP-OC			
69	1308	2			ICB	SE				0.0063			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
70	1308	2			ICB	SI				0.0013			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
71	1308	2			ICB	SM				-0.0017			1.0000	05/24/95	14:58	###	0.1	@ICP-OC			
72	1308	2			ICB	SR				-0.0023			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
73	1308	2			ICB	TH				0.0032			1.0000	05/24/95	14:58	###	0	@ICP-OC			
74	1308	2			ICB	TI				-0.0004			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
75	1308	2			ICB	TL				0.0093			1.0000	05/24/95	14:58	###	0.2	@ICP-OC			
76	1308	2			ICB	U				-0.0048			1.0000	05/24/95	14:58	###	0.4	@ICP-OC			
77	1308	2			ICB	V				-0.0022			1.0000	05/24/95	14:58	###	0.05	@ICP-OC			
78	1308	2			ICB	Y				-0.0002			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
79	1308	2			ICB	ZN				0.0003			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
80	1308	2			ICB	ZR				-0.0011			1.0000	05/24/95	14:58	###	0.01	@ICP-OC			
81	1308	3			ICSA	AG				-0.0015			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
82	1308	3			ICSA	AL				241.3615			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
83	1308	3			ICSA	AS				-0.0567			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
84	1308	3			ICSA	B				0.0026			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
85	1308	3			ICSA	BA				0.0033			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
86	1308	3			ICSA	BE				-0.0001			1.0000	05/24/95	14:59	###	0.005	@ICP-OC			
87	1308	3			ICSA	BI				0.0033			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
88	1308	3			ICSA	CA				240.7508			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
89	1308	3			ICSA	CD				-0.0002			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
90	1308	3			ICSA	CE				0.0124			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
91	1308	3			ICSA	CO				-0.0010			1.0000	05/24/95	14:59	###	0.02	@ICP-OC			
92	1308	3			ICSA	CR				-0.0047			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
93	1308	3			ICSA	CU				-0.0087			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
94	1308	3			ICSA	EU				5.0476			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
95	1308	3			ICSA	FE				80.8625			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
96	1308	3			ICSA	K				-0.0541			1.0000	05/24/95	14:59	###	0.3	@ICP-OC			
97	1308	3			ICSA	LA				-0.0026			1.0000	05/24/95	14:59	###	0.02	@ICP-OC			
98	1308	3			ICSA	LI				0.0016			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
99	1308	3			ICSA	MG				247.5824			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
100	1308	3			ICSA	MN				-0.0088			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
101	1308	3			ICSA	MO				-0.0126			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
102	1308	3			ICSA	NA				192.2095			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
103	1308	3			ICSA	ND				0.0179			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
104	1308	3			ICSA	NI				-0.0310			1.0000	05/24/95	14:59	###	0.02	@ICP-OC			
105	1308	3			ICSA	P				0.0815			1.0000	05/24/95	14:59	###	0.2	@ICP-OC			
106	1308	3			ICSA	PB				0.0425			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
107	1308	3			ICSA	S				0.0175			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
108	1308	3			ICSA	SB				0.0141			1.0000	05/24/95	14:59	###	0.2	@ICP-OC			
109	1308	3			ICSA	SE				0.0625			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
110	1308	3			ICSA	SI				0.0264			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
111	1308	3			ICSA	SM				-0.0127			1.0000	05/24/95	14:59	###	0.1	@ICP-OC			
112	1308	3			ICSA	SR				-0.0033			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
113	1308	3			ICSA	TH				-0.0165			1.0000	05/24/95	14:59	###	0	@ICP-OC			
114	1308	3			ICSA	TI				0.0008			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
115	1308	3			ICSA	TL				0.0001			1.0000	05/24/95	14:59	###	0.2	@ICP-OC			
116	1308	3			ICSA	U				0.1893			1.0000	05/24/95	14:59	###	0.4	@ICP-OC			
117	1308	3			ICSA	V				-0.0021			1.0000	05/24/95	14:59	###	0.05	@ICP-OC			
118	1308	3			ICSA	Y				0.0189			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
119	1308	3			ICSA	ZN				-0.0252			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
120	1308	3			ICSA	ZR				-0.0031			1.0000	05/24/95	14:59	###	0.01	@ICP-OC			
121	1308	4			ICSAB	AG				0.0007			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			
122	1308	4			ICSAB	AL				241.1898			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
123	1308	4			ICSAB	AS				-0.0054			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
124	1308	4			ICSAB	B				0.0038			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
125	1308	4			ICSAB	BA				0.4810			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
126	1308	4			ICSAB	BE				0.4734			1.0000	05/24/95	15:03	###	0.005	@ICP-OC			
127	1308	4			ICSAB	BI				0.0560			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
128	1308	4			ICSAB	CA				244.3257			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
129	1308	4			ICSAB	CD				0.8370			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			
130	1308	4			ICSAB	CE				0.0086			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
131	1308	4			ICSAB	CO				0.4628			1.0000	05/24/95	15:03	###	0.02	@ICP-OC			
132	1308	4			ICSAB	CR				0.4622			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			
133	1308	4			ICSAB	CU				0.4776			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			
134	1308	4			ICSAB	EU				0.0433			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
135	1308	4			ICSAB	FE				91.4476			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
136	1308	4			ICSAB	K				0.9203			1.0000	05/24/95	15:03	###	0.3	@ICP-OC			
137	1308	4			ICSAB	LA				-0.0039			1.0000	05/24/95	15:03	###	0.02	@ICP-OC			
138	1308	4			ICSAB	LI				0.0006			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			
139	1308	4			ICSAB	MG				247.1241			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
140	1308	4			ICSAB	MN				0.4424			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			
141	1308	4			ICSAB	MO				-0.0164			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
142	1308	4			ICSAB	NA				191.1754			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
143	1308	4			ICSAB	ND				0.0173			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
144	1308	4			ICSAB	NI				0.0173			1.0000	05/24/95	15:03	###	0.02	@ICP-OC			
145	1308	4			ICSAB	P				0.0613			1.0000	05/24/95	15:03	###	0.2	@ICP-OC			
146	1308	4			ICSAB	PB				0.0880			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
147	1308	4			ICSAB	S				0.0256			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
148	1308	4			ICSAB	SB				-0.0033			1.0000	05/24/95	15:03	###	0.2	@ICP-OC			
149	1308	4			ICSAB	SE				0.0964			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
150	1308	4			ICSAB	SI				0.0342			1.0000	05/24/95	15:03	###	0.05	@ICP-OC			
151	1308	4			ICSAB	SM				-0.0079			1.0000	05/24/95	15:03	###	0.1	@ICP-OC			
152	1308	4			ICSAB	SR				-0.0053			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			
153	1308	4			ICSAB	TH				-0.0146			1.0000	05/24/95	15:03	###	0	@ICP-OC			
154	1308	4			ICSAB	TI				0.0002			1.0000	05/24/95	15:03	###	0.01	@ICP-OC			

520

WHC-SD-WM-DP-154, REV. 0

5P 05/26/95

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
155	1308	4			ICSAB	TL				0.0217			1.0000	05/24/95	15:03	mg	0.2	@ICP-QC		
156	1308	4			ICSAB	U				0.1686			1.0000	05/24/95	15:03	mg	0.4	@ICP-QC		
157	1308	4			ICSAB	V				0.4637			1.0000	05/24/95	15:03	mg	0.06	@ICP-QC		
158	1308	4			ICSAB	Y				0.0189			1.0000	05/24/95	15:03	mg	0.01	@ICP-QC		
159	1308	4			ICSAB	ZN				0.9366			1.0000	05/24/95	15:03	mg	0.01	@ICP-QC		
160	1308	4			ICSAB	ZR				-0.0021			1.0000	05/24/95	15:03	mg	0.01	@ICP-QC		
161	1308	5			PREPBLKTJA	AG-F-01				0.0086			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
162	1308	5			PREPBLKTJA	AL-F-01				0.2830			10.0000	05/24/95	15:11	mg	0.06	@ICP-F01		
163	1308	5			PREPBLKTJA	AS-F-01				0.1366			10.0000	05/24/95	15:11	mg	0.02	@ICP-F01		
164	1308	5			PREPBLKTJA	B-F-01				0.0043			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
165	1308	5			PREPBLKTJA	BA-F-01				0.0266			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
166	1308	5			PREPBLKTJA	BE-F-01				-0.0037			10.0000	05/24/95	15:11	mg	0.005	@ICP-F01		
167	1308	5			PREPBLKTJA	BI-F-01				-0.2779			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
168	1308	5			PREPBLKTJA	CA-F-01				0.8883			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
169	1308	5			PREPBLKTJA	CD-F-01				0.0095			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
170	1308	5			PREPBLKTJA	CE-F-01				0.0899			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
171	1308	5			PREPBLKTJA	CO-F-01				0.0071			10.0000	05/24/95	15:11	mg	0.02	@ICP-F01		
172	1308	5			PREPBLKTJA	CR-F-01				0.0155			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
173	1308	5			PREPBLKTJA	CU-F-01				0.0645			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
174	1308	5			PREPBLKTJA	EU-F-01				0.0183			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
175	1308	5			PREPBLKTJA	FE-F-01				0.1643			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
176	1308	5			PREPBLKTJA	K-F-01				13954.4141			10.0000	05/24/95	15:11	mg	0.3	@ICP-F01		
177	1308	5			PREPBLKTJA	LA-F-01				0.0078			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
178	1308	5			PREPBLKTJA	LI-F-01				0.0073			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
179	1308	5			PREPBLKTJA	MG-F-01				0.3804			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
180	1308	5			PREPBLKTJA	MN-F-01				0.0231			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
181	1308	5			PREPBLKTJA	MO-F-01				-0.0128			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
182	1308	5			PREPBLKTJA	NA-F-01				4.8412			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
183	1308	5			PREPBLKTJA	ND-F-01				0.0486			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
184	1308	5			PREPBLKTJA	NI-F-01				0.3449			10.0000	05/24/95	15:11	mg	0.02	@ICP-F01		
185	1308	5			PREPBLKTJA	P-F-01				-0.0297			10.0000	05/24/95	15:11	mg	0.2	@ICP-F01		
186	1308	5			PREPBLKTJA	PB-F-01				0.4648			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
187	1308	5			PREPBLKTJA	S-F-01				0.1019			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
188	1308	5			PREPBLKTJA	SB-F-01				-0.0380			10.0000	05/24/95	15:11	mg	0.2	@ICP-F01		
189	1308	5			PREPBLKTJA	SE-F-01				-2.5247			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
190	1308	5			PREPBLKTJA	SI-F-01				0.3295			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
191	1308	5			PREPBLKTJA	SM-F-01				0.1249			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
192	1308	5			PREPBLKTJA	SR-F-01				-0.0016			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
193	1308	5			PREPBLKTJA	TH-F-01				0.2281			10.0000	05/24/95	15:11	mg	0.1	@ICP-F01		
194	1308	5			PREPBLKTJA	TI-F-01				0.0171			10.0000	05/24/95	15:11	mg	0	@ICP-F01		
195	1308	5			PREPBLKTJA	TL-F-01				0.0857			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
196	1308	5			PREPBLKTJA	U-F-01				-3.2718			10.0000	05/24/95	15:11	mg	0.2	@ICP-F01		
197	1308	5			PREPBLKTJA	V-F-01				0.0436			10.0000	05/24/95	15:11	mg	0.4	@ICP-F01		
198	1308	5			PREPBLKTJA	Y-F-01				0.0078			10.0000	05/24/95	15:11	mg	0.05	@ICP-F01		
199	1308	5			PREPBLKTJA	ZN-F-01				0.0840			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
200	1308	5			PREPBLKTJA	ZR-F-01				0.0235			10.0000	05/24/95	15:11	mg	0.01	@ICP-F01		
201	1308	6	9507000772			AG-F-01			<	49.9500			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
202	1308	6	9507000772			AL-F-01			<	945.9739			4995.000	05/24/95	15:19	mg	0.06	@ICP-F01		
203	1308	6	9507000772			AS-F-01			<	249.7500			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
204	1308	6	9507000772			B-F-01			<	249.7500			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
205	1308	6	9507000772			BA-F-01			<	249.7500			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
206	1308	6	9507000772			BE-F-01			<	249.7500			4995.000	05/24/95	15:19	mg	0.005	@ICP-F01		
207	1308	6	9507000772			BI-F-01			<	499.5000			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
208	1308	6	9507000772			CA-F-01				2411.7861			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
209	1308	6	9507000772			CD-F-01			<	49.9500			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
210	1308	6	9507000772			CE-F-01			<	499.5000			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
211	1308	6	9507000772			CO-F-01			<	99.9000			4995.000	05/24/95	15:19	mg	0.02	@ICP-F01		
212	1308	6	9507000772			CR-F-01				186.6842			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
213	1308	6	9507000772			CU-F-01				55.6588			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
214	1308	6	9507000772			FE-F-01				30039.9199			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
215	1308	6	9507000772			K-F-01				5980056.5000			4995.000	05/24/95	15:19	mg	0.3	@ICP-F01		
216	1308	6	9507000772			LA-F-01			<	249.7500			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
217	1308	6	9507000772			LI-F-01			<	49.9500			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
218	1308	6	9507000772			MG-F-01				612.5106			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
219	1308	6	9507000772			MN-F-01				144.3180			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
220	1308	6	9507000772			MO-F-01			<	249.7500			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
221	1308	6	9507000772			NA-F-01				107150.3594			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
222	1308	6	9507000772			ND-F-01			<	499.5000			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
223	1308	6	9507000772			NI-F-01				3676.0286			4995.000	05/24/95	15:19	mg	0.02	@ICP-F01		
224	1308	6	9507000772			P-F-01				22624.1367			4995.000	05/24/95	15:19	mg	0.2	@ICP-F01		
225	1308	6	9507000772			PB-F-01				936.7854			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
226	1308	6	9507000772			S-F-01				6182.0063			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
227	1308	6	9507000772			SB-F-01			<	999.0000			4995.000	05/24/95	15:19	mg	0.2	@ICP-F01		
228	1308	6	9507000772			SE-F-01			<	499.5000			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
229	1308	6	9507000772			SI-F-01				926.2998			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
230	1308	6	9507000772			SM-F-01			<	499.5000			4995.000	05/24/95	15:19	mg	0.1	@ICP-F01		
231	1308	6	9507000772			SR-F-01				917.3986			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
232	1308	6	9507000772			TH-F-01			<	49.9500			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
233	1308	6	9507000772			TI-F-01			<	999.0000			4995.000	05/24/95	15:19	mg	0.2	@ICP-F01		
234	1308	6	9507000772			U-F-01				16251.2803			4995.000	05/24/95	15:19	mg	0.4	@ICP-F01		
235	1308	6	9507000772			V-F-01			<	249.7500			4995.000	05/24/95	15:19	mg	0.05	@ICP-F01		
236	1308	6	9507000772			ZN-F-01				213.7557			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
237	1308	6	9507000772			ZR-F-01			<	49.9500			4995.000	05/24/95	15:19	mg	0.01	@ICP-F01		
238	1308	7	9507000772		DUP	AG-F-01		<49.9500		<49.9200			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
239	1308	7	9507000772		DUP	AL-F-01		945.9739		824.6570			4992.000	05/24/95	15:23	mg	0.06	@ICP-F01		
240	1308	7	9507000772		DUP	AS-F-01		<249.7500		<249.6000			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
241	1308	7	9507000772		DUP	B-F-01		<249.7500		<249.6000			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
242	1308	7	9507000772		DUP	BA-F-01		<249.7500		<249.6000			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
243	1308	7	9507000772		DUP	BE-F-01		<24.9750		<24.9600			4992.000	05/24/95	15:23	mg	0.005	@ICP-F01		
244	1308	7	9507000772		DUP	BI-F-01		<499.5000		<499.2000			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
245	1308	7	9507000772		DUP	CA-F-01		2411.7861		2179.2454			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
246	1308	7	9507000772		DUP	CD-F-01		<49.9500		<49.9200			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
247	1308	7	9507000772		DUP	CE-F-01		<499.5000		<499.2000			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
248	1308	7	9507000772		DUP	CO-F-01		<99.9000		<99.8400			4992.000	05/24/95	15:23	mg	0.02	@ICP-F01		
249	1308	7	9507000772		DUP	CR-F-01		186.6842		169.7897			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
250	1308	7	9507000772		DUP	CU-F-01		55.6588		66.4648			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
251	1308	7	9507000772		DUP	FE-F-01		30039.9199		27842.0859			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
252	1308	7	9507000772		DUP	K-F-01		5980056.5000		7376482.0000			4992.000	05/24/95	15:23	mg	0.3	@ICP-F01		
253	1308	7	9507000772		DUP	LA-F-01		<249.7500		<249.6000			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
254	1308	7	9507000772		DUP	LI-F-01		<49.9500		<49.9200			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
255	1308	7	9507000772		DUP	MG-F-01		612.5106		548.5969			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
256	1308	7	9507000772		DUP	MN-F-01		144.3180		131.0466			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
257	1308	7	9507000772		DUP	MO-F-01		<249.7500		<249.6000			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
258	1308	7	9507000772		DUP	NA-F-01		107150.3594		110243.4844			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
259	1308	7	9507000772		DUP	ND-F-01		<499.5000		<499.2000			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
260	1308	7	9507000772		DUP	NI-F-01		3676.0286		4866.9263			4992.000	05/24/95	15:23	mg	0.02	@ICP-F01		
261	1308	7	9507000772		DUP	P-F-01		22624.1367		22599.7070			4992.000	05/24/95	15:23	mg	0.2	@ICP-F01		
262	1308	7	9507000772		DUP	PB-F-01		936.7854		893.8926			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
263	1308	7	9507000772		DUP	S-F-01		6182.0063		6570.7017			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
264	1308	7	9507000772		DUP	SB-F-01		<999.0000		<998.4000			4992.000	05/24/95	15:23	mg	0.2	@ICP-F01		
265	1308	7	9507000772		DUP	SE-F-01		<499.5000		<499.2000			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
266	1308	7	9507000772		DUP	SI-F-01		926.2998		941.5004			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
267	1308	7	9507000772		DUP	SM-F-01		<499.5000		<499.2000			4992.000	05/24/95	15:23	mg	0.1	@ICP-F01		
268	1308	7	9507000772		DUP	SR-F-01		917.3986		872.8943			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
269	1308	7	9507000772		DUP	TH-F-01		<49.9500		<49.9200			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
270	1308	7	9507000772		DUP	TI-F-01		<999.0000		<998.4000			4992.000	05/24/95	15:23	mg	0.2	@ICP-F01		
271	1308	7	9507000772		DUP	U-F-01		16251.2803		16372.3398			4992.000	05/24/95	15:23	mg	0.4	@ICP-F01		
272	1308	7	9507000772		DUP	V-F-01		<249.7500		<249.6000			4992.000	05/24/95	15:23	mg	0.05	@ICP-F01		
273	1308	7	9507000772		DUP	ZN-F-01		213.7557		193.9513			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
274	1308	7	9507000772		DUP	ZR-F-01		<49.9500		<49.9200			4992.000	05/24/95	15:23	mg	0.01	@ICP-F01		
275	1308	8	9507000772_A			AG-F-01		5000.0		3535.8204			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
276	1308	8	9507000772_A			AL-F-01		5000.0		4895.00852			4995.000	05/24/95	15:26	mg	0.06	@ICP-F01		
277	1308	8	9507000772_A			AS-F-01		5000.0		5094.1089			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
278	1308	8	9507000772_A			B-F-01		5000.0		4788.7188			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
279	1308	8	9507000772_A			BA-F-01		5000.0		4577.1116			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
280	1308	8	9507000772_A			BE-F-01		5000.0		4895.0010			4995.000	05/24/95	15:26	mg	0.005	@ICP-F01		
281	1308	8	9507000772_A			BI-F-01		5000.0		5431.6943			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
282	1308	8	9507000772_A			CA-F-01		5000.0		4803.2286			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
283	1308	8	9507000772_A			CD-F-01		5000.0		4911.0254			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
284	1308	8	9507000772_A			CE-F-01		5000.0		4764.9448			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
285	1308	8	9507000772_A			CO-F-01		5000.0		4880.4863			4995.000	05/24/95	15:26	mg	0.02	@ICP-F01		
286	1308	8	9507000772_A			CR-F-01		5000.0		4924.6813			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
287	1308	8	9507000772_A			CU-F-01		5000.0		4728.7079			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
288	1308	8	9507000772_A			FE-F-01		5000.0		4191.0059			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
289	1308	8	9507000772_A			K-F-01		0.0		5980056.5000			4995.000	05/24/95	15:26	mg	0.3	@ICP-F01		
290	1308	8	9507000772_A			LA-F-01		5000.0		4709.8472			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
291	1308	8	9507000772_A			LI-F-01		5000.0		4972.3823			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
292	1308	8	9507000772_A			MG-F-01		5000.0		4570.8591			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
293	1308	8	9507000772_A			MN-F-01		5000.0		4859.1767			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
294	1308	8	9507000772_A			MO-F-01		5000.0		4873.4181			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
295	1308	8	9507000772_A			NA-F-01		5000.0		4716.5859			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
296	1308	8	9507000772_A			ND-F-01		5000.0		4828.7007			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
297	1308	8	9507000772_A			NI-F-01		5000.0		4799.1865			4995.000	05/24/95	15:26	mg	0.02	@ICP-F01		
298	1308	8	9507000772_A			P-F-01		5000.0		5082.0608			4995.000	05/24/95	15:26	mg	0.2	@ICP-F01		
299	1308	8	9507000772_A			PB-F-01		5000.0		4844.20188			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
300	1308	8	9507000772_A			S-F-01		5000.0		4860.5445			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
301	1308	8	9507000772_A			SB-F-01		5000.0		4719.3606			4995.000	05/24/95	15:26	mg	0.2	@ICP-F01		
302	1308	8	9507000772_A			SE-F-01		5000.0		2686.4746			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
303	1308	8	9507000772_A			SI-F-01		5000.0		4701.529			4995.000	05/24/95	15:26	mg	0.05	@ICP-F01		
304	1308	8	9507000772_A			SM-F-01		5000.0		4708.0991			4995.000	05/24/95	15:26	mg	0.1	@ICP-F01		
305	1308	8	9507000772_A			SR-F-01		5000.0		4599.1449			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
306	1308	8	9507000772_A			TI-F-01		5000.0		4886.1459			4995.000	05/24/95	15:26	mg	0.01	@ICP-F01		
307	1308	8	9507000772_A			U-F-01		10000.0		9034.249			4995.000	05/24/95	15:26	mg	0.4	@ICP-F01		

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
306	1308	8	8987000772_A			V-F-01	9000.0			4708.9998			-4995.0000	05/24/95	15:26	ug		0.05	@ICP-F01						
307	1308	8	8987000772_A			ZN-F-01	9000.0			4626.9377			4995.0000	05/24/95	15:26	ug		0.01	@ICP-F01						
311	1308	8	8987000772_A			ZN-F-01	9000.0			4745.4077			4995.0000	05/24/95	15:26	ug		0.01	@ICP-F01						
312	1308	9			CCV	AG					5.0023		1.0000	05/24/95	15:31			0.01	@ICP-QC						
313	1308	9			CCV	AL					5.0754		1.0000	05/24/95	15:31			0.05	@ICP-QC						
314	1308	9			CCV	AS					5.1754		1.0000	05/24/95	15:31			0.05	@ICP-QC						
315	1308	9			CCV	B					5.0819		1.0000	05/24/95	15:31			0.05	@ICP-QC						
316	1308	9			CCV	BA					5.0303		1.0000	05/24/95	15:31			0.05	@ICP-QC						
317	1308	9			CCV	BE					5.2309		1.0000	05/24/95	15:31			0.0005	@ICP-QC						
318	1308	9			CCV	BI					5.1528		1.0000	05/24/95	15:31			0.1	@ICP-QC						
319	1308	9			CCV	CA					5.1327		1.0000	05/24/95	15:31			0.1	@ICP-QC						
320	1308	9			CCV	CD					5.1305		1.0000	05/24/95	15:31			0.01	@ICP-QC						
321	1308	9			CCV	CE					5.1402		1.0000	05/24/95	15:31			0.1	@ICP-QC						
322	1308	9			CCV	CO					5.1174		1.0000	05/24/95	15:31			0.02	@ICP-QC						
323	1308	9			CCV	CR					5.1339		1.0000	05/24/95	15:31			0.01	@ICP-QC						
324	1308	9			CCV	CU					5.1395		1.0000	05/24/95	15:31			0.01	@ICP-QC						
325	1308	9			CCV	EU					0.0112		1.0000	05/24/95	15:31			0.05	@ICP-QC						
326	1308	9			CCV	FE					5.1462		1.0000	05/24/95	15:31			0.05	@ICP-QC						
327	1308	9			CCV	K					5.2505		1.0000	05/24/95	15:31			0.5	@ICP-QC						
328	1308	9			CCV	LA					5.1226		1.0000	05/24/95	15:31			0.05	@ICP-QC						
329	1308	9			CCV	LI					5.1528		1.0000	05/24/95	15:31			0.01	@ICP-QC						
330	1308	9			CCV	MG					5.0611		1.0000	05/24/95	15:31			0.1	@ICP-QC						
331	1308	9			CCV	MN					5.0109		1.0000	05/24/95	15:31			0.01	@ICP-QC						
332	1308	9			CCV	MO					5.1394		1.0000	05/24/95	15:31			0.05	@ICP-QC						
333	1308	9			CCV	NA					5.0488		1.0000	05/24/95	15:31			0.1	@ICP-QC						
334	1308	9			CCV	NB					5.2969		1.0000	05/24/95	15:31			0.1	@ICP-QC						
335	1308	9			CCV	NI					5.0914		1.0000	05/24/95	15:31			0.02	@ICP-QC						
336	1308	9			CCV	P					5.2627		1.0000	05/24/95	15:31			0.2	@ICP-QC						
337	1308	9			CCV	PB					5.1218		1.0000	05/24/95	15:31			0.1	@ICP-QC						
338	1308	9			CCV	S					5.0861		1.0000	05/24/95	15:31			0.05	@ICP-QC						
339	1308	9			CCV	SB					4.9494		1.0000	05/24/95	15:31			0.3	@ICP-QC						
340	1308	9			CCV	SE					5.1601		1.0000	05/24/95	15:31			0.1	@ICP-QC						
341	1308	9			CCV	SI					4.7689		1.0000	05/24/95	15:31			0.05	@ICP-QC						
342	1308	9			CCV	SM					5.1622		1.0000	05/24/95	15:31			0.1	@ICP-QC						
343	1308	9			CCV	SR					5.0264		1.0000	05/24/95	15:31			0.01	@ICP-QC						
344	1308	9			CCV	TH					-0.0185		1.0000	05/24/95	15:31			0	@ICP-QC						
345	1308	9			CCV	TI					4.9852		1.0000	05/24/95	15:31			0.01	@ICP-QC						
346	1308	9			CCV	TL					5.0114		1.0000	05/24/95	15:31			0.2	@ICP-QC						
347	1308	9			CCV	U					10.1540		1.0000	05/24/95	15:31			0.4	@ICP-QC						
348	1308	9			CCV	V					4.8801		1.0000	05/24/95	15:31			0.05	@ICP-QC						
349	1308	9			CCV	Y					0.0138		1.0000	05/24/95	15:31			0.01	@ICP-QC						
350	1308	9			CCV	ZN					5.1342		1.0000	05/24/95	15:31			0.01	@ICP-QC						
351	1308	9			CCV	ZR					5.0643		1.0000	05/24/95	15:31			0.01	@ICP-QC						
352	1308	10			CCB	AG					0.0030		1.0000	05/24/95	15:35			0.01	@ICP-QC						
353	1308	10			CCB	AL					0.0062		1.0000	05/24/95	15:35			0.05	@ICP-QC						
354	1308	10			CCB	AS					0.0080		1.0000	05/24/95	15:35			0.05	@ICP-QC						
355	1308	10			CCB	B					0.0039		1.0000	05/24/95	15:35			0.05	@ICP-QC						
356	1308	10			CCB	BA					0.0001		1.0000	05/24/95	15:35			0.05	@ICP-QC						
357	1308	10			CCB	BE					0.0001		1.0000	05/24/95	15:35			0.0005	@ICP-QC						
358	1308	10			CCB	BI					-0.0012		1.0000	05/24/95	15:35			0.1	@ICP-QC						
359	1308	10			CCB	CA					-0.0053		1.0000	05/24/95	15:35			0.1	@ICP-QC						
360	1308	10			CCB	CD					-0.0001		1.0000	05/24/95	15:35			0.01	@ICP-QC						
361	1308	10			CCB	CE					-0.0000		1.0000	05/24/95	15:35			0.1	@ICP-QC						
362	1308	10			CCB	CO					-0.0014		1.0000	05/24/95	15:35			0.02	@ICP-QC						
363	1308	10			CCB	CR					-0.0002		1.0000	05/24/95	15:35			0.01	@ICP-QC						
364	1308	10			CCB	CU					-0.0004		1.0000	05/24/95	15:35			0.01	@ICP-QC						
365	1308	10			CCB	EU					-0.0013		1.0000	05/24/95	15:35			0.05	@ICP-QC						
366	1308	10			CCB	FE					-0.0015		1.0000	05/24/95	15:35			0.05	@ICP-QC						
367	1308	10			CCB	K					-0.0991		1.0000	05/24/95	15:35			0.5	@ICP-QC						
368	1308	10			CCB	LA					0.0008		1.0000	05/24/95	15:35			0.05	@ICP-QC						
369	1308	10			CCB	LI					-0.0009		1.0000	05/24/95	15:35			0.01	@ICP-QC						
370	1308	10			CCB	MG					0.0058		1.0000	05/24/95	15:35			0.1	@ICP-QC						
371	1308	10			CCB	MN					0.0000		1.0000	05/24/95	15:35			0.01	@ICP-QC						
372	1308	10			CCB	MO					0.0007		1.0000	05/24/95	15:35			0.05	@ICP-QC						
373	1308	10			CCB	NA					-0.0069		1.0000	05/24/95	15:35			0.1	@ICP-QC						
374	1308	10			CCB	NB					-0.0004		1.0000	05/24/95	15:35			0.1	@ICP-QC						
375	1308	10			CCB	NI					-0.0044		1.0000	05/24/95	15:35			0.02	@ICP-QC						
376	1308	10			CCB	P					-0.0180		1.0000	05/24/95	15:35			0.2	@ICP-QC						
377	1308	10			CCB	PB					-0.0043		1.0000	05/24/95	15:35			0.1	@ICP-QC						
378	1308	10			CCB	S					-0.0085		1.0000	05/24/95	15:35			0.05	@ICP-QC						
379	1308	10			CCB	SB					0.0077		1.0000	05/24/95	15:35			0.2	@ICP-QC						
380	1308	10			CCB	SE					0.0128		1.0000	05/24/95	15:35			0.1	@ICP-QC						
381	1308	10			CCB	SI					0.0201		1.0000	05/24/95	15:35			0.05	@ICP-QC						
382	1308	10			CCB	SM					-0.0105		1.0000	05/24/95	15:35			0.1	@ICP-QC						
383	1308	10			CCB	SR					-0.0022		1.0000	05/24/95	15:35			0.01	@ICP-QC						
384	1308	10			CCB	TH					0.0077		1.0000	05/24/95	15:35			0	@ICP-QC						
385	1308	10			CCB	TI					-0.0004		1.0000	05/24/95	15:35			0.01	@ICP-QC						
386	1308	10			CCB	TL					-0.0042		1.0000	05/24/95	15:35			0.2	@ICP-QC						
387	1308	10			CCB	V					-0.0298		1.0000	05/24/95	15:35			0.4	@ICP-QC						
388	1308	10			CCB	Y					-0.0015		1.0000	05/24/95	15:35			0.05	@ICP-QC						
389	1308	10			CCB	ZN					-0.0008		1.0000	05/24/95	15:35			0.01	@ICP-QC						
390	1308	10			CCB	ZR					0.0015		1.0000	05/24/95	15:35			0.01	@ICP-QC						
391	1308	11	8987000775			AG-F-01					-0.0036		1.0000	05/24/95	15:35			0.01	@ICP-QC						
392	1308	11	8987000775			AG-F-01					50.6100		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
393	1308	11	8987000775			AL-F-01					2475.8046		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
394	1308	11	8987000775			AS-F-01					253.0500		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
395	1308	11	8987000775			B-F-01					253.0500		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
396	1308	11	8987000775			BA-F-01					253.0500		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
397	1308	11	8987000775			BE-F-01					25.3050		5081.0000	05/24/95	15:43			0.005	@ICP-F01						
398	1308	11	8987000775			BI-F-01					506.1000		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
399	1308	11	8987000775			CA-F-01					1042.4801		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
400	1308	11	8987000775			CD-F-01					50.6100		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
401	1308	11	8987000775			CE-F-01					506.1000		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
402	1308	11	8987000775			CO-F-01					101.2200		5081.0000	05/24/95	15:43			0.02	@ICP-F01						
403	1308	11	8987000775			CR-F-01					167.9779		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
404	1308	11	8987000775			CU-F-01					50.6100		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
405	1308	11	8987000775			FE-F-01					19760.7734		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
406	1308	11	8987000775			K-F-01					4600233.0000		5081.0000	05/24/95	15:43			0.5	@ICP-F01						
407	1308	11	8987000775			LA-F-01					253.0500		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
408	1308	11	8987000775			LI-F-01					50.6100		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
409	1308	11	8987000775			MG-F-01					606.1000		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
410	1308	11	8987000775			MN-F-01					100.5555		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
411	1308	11	8987000775			MO-F-01					253.0500		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
412	1308	11	8987000775			NA-F-01					9474.0625		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
413	1308	11	8987000775			NB-F-01					606.1000		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
414	1308	11	8987000775			NI-F-01					5232.8811		5081.0000	05/24/95	15:43			0.02	@ICP-F01						
415	1308	11	8987000775			P-F-01					19870.0605		5081.0000	05/24/95	15:43			0.2	@ICP-F01						
416	1308	11	8987000775			PB-F-01					888.1547		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
417	1308	11	8987000775			S-F-01					9570.3760		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
418	1308	11	8987000775			SB-F-01					1012.2000		5081.0000	05/24/95	15:43			0.2	@ICP-F01						
419	1308	11	8987000775			SE-F-01					506.1000		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
420	1308	11	8987000775			SI-F-01					42218.8695		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
421	1308	11	8987000775			SM-F-01					506.1000		5081.0000	05/24/95	15:43			0.1	@ICP-F01						
422	1308	11	8987000775			SR-F-01					679.7366		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
423	1308	11	8987000775			TH-F-01					50.6100		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
424	1308	11	8987000775			TL-F-01					1012.2000		5081.0000	05/24/95	15:43			0.2	@ICP-F01						
425	1308	11	8987000775			U-F-01					22753.8418		5081.0000	05/24/95	15:43			0.4	@ICP-F01						
426	1308	11	8987000775			V-F-01					253.0500		5081.0000	05/24/95	15:43			0.05	@ICP-F01						
427	1308	11	8987000775			ZN-F-01					241.6220		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
428	1308	11	8987000775			ZR-F-01					50.6100		5081.0000	05/24/95	15:43			0.01	@ICP-F01						
429	1308	12	8987000775	DUP		AG-F-01		<50.6100				<50.5700	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
430	1308	12	8987000775	DUP		AL-F-01		2475.8046				2344.1504	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
431	1308	12	8987000775	DUP		AS-F-01		<253.0500				<252.8500	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
432	1308	12	8987000775	DUP		B-F-01		<253.0500				<252.8500	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
433	1308	12	8987000775	DUP		BA-F-01		<253.0500				<252.8500	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
434	1308	12	8987000775	DUP		BE-F-01		<25.3050				<25.2850	5057.0000	05/24/95	15:47			0.005	@ICP-F01						
435	1308	12	8987000775	DUP		BI-F-01		<506.1000				<505.7000	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
436	1308	12	8987000775	DUP		CA-F-01		1042.4801				980.8653	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
437	1308	12	8987000775	DUP		CD-F-01		<50.6100				<50.5700	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
438	1308	12	8987000775	DUP		CE-F-01		<506.1000				<505.7000	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
439	1308	12	8987000775	DUP		CO-F-01		<101.2200				<101.1400	5057.0000	05/24/95	15:47			0.02	@ICP-F01						
440	1308	12	8987000775	DUP		CR-F-01		167.9779				160.5128	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
441	1308	12	8987000775	DUP		CU-F-01		<50.6100				<50.5700	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
442	1308	12	8987000775	DUP		FE-F-01		19760.7734				18618.8047	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
443	1308	12	8987000775	DUP		K-F-01		4600233.0000				4569836.0000	5057.0000	05/24/95	15:47			0.5	@ICP-F01						
444	1308	12	8987000775	DUP		LA-F-01		<253.0500				<252.8500	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
445	1308	12	8987000775	DUP		LI-F-01		<50.6100				<50.5700	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
446	1308	12	8987000775	DUP		MG-F-01		606.1000				606.7000	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
447	1308	12	8987000775	DUP		MN-F-01		100.5555				97.0317	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
448	1308	12	8987000775	DUP		MO-F-01		<253.0500				<252.8500	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
449	1308	12	8987000775	DUP		NA-F-01		9474.0625				8605.6641	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
450	1308	12	8987000775	DUP		NB-F-01		<606.1000				<605.7000	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
451	1308	12	8987000775	DUP		NI-F-01		5232.8811				4603.2305	5057.0000	05/24/95	15:47			0.02	@ICP-F01						
452	1308	12	8987000775	DUP		P-F-01		19870.0605				18888.6309	5057.0000	05/24/95	15:47			0.2	@ICP-F01						
453	1308	12	8987000775	DUP		PB-F-01		888.1547				748.5293	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
454	1308	12	8987000775	DUP		S-F-01		9570.3760				9246.3808	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
455	1308	12	8987000775	DUP		SB-F-01		<1012.2000				<1011.4000	5057.0000	05/24/95	15:47			0.2	@ICP-F01						
456	1308	12	8987000775	DUP		SE-F-01		<506.1000				<505.7000	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
457	1308	12	8987000775	DUP		SI-F-01		42218.8695				40287.8631	5057.0000	05/24/95	15:47			0.05	@ICP-F01						
458	1308	12	8987000775	DUP		SM-F-01		<506.1000				<505.7000	5057.0000	05/24/95	15:47			0.1	@ICP-F01						
459	1308	12	8987000775	DUP		SR-F-01		679.7366				639.3862	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
460	1308	12	8987000775	DUP		TI-F-01		<50.6100				<50.5700	5057.0000	05/24/95	15:47			0.01	@ICP-F01						
461	1308	12	8987000775	DUP		TL-F-01		<1012.2000				<1011.4000	5057.0000	05/24/95	15:47			0.2	@ICP-F01						
462	1308	12	8987000775	DUP		U-F-01		22753.8418				21449.7031	5057.0000	05/24/95	15:47			0.4	@ICP-F01						

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
465	1308	12	8951000776		DUP	V-F-01		<253.8609		<282.8600		5057.0000	05/24/95	15:47	ug		0.06	@ICP-F01		
466	1308	12	8951000776		DUP	ZN-F-01		241.8220		160.0341		5057.0000	05/24/95	15:47	ug		0.01	@ICP-F01		
467	1308	12	8951000776		DUP	ZR-F-01		<50.8100		<50.5700		5057.0000	05/24/95	15:47	ug		0.01	@ICP-F01		
468	1308	13	8951000776_A			AG-F-01		5000.0		3668.1382		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
469	1308	13	8951000776_A			AL-F-01		5000.0		4858.3911		5081.0000	05/24/95	15:51	ug		0.06	@ICP-F01		
470	1308	13	8951000776_A			AS-F-01		5000.0		5258.8189		5081.0000	05/24/95	15:51	ug		0.06	@ICP-F01		
471	1308	13	8951000776_A			B-F-01		5000.0		4969.1985		5081.0000	05/24/95	15:51	ug		0.05	@ICP-F01		
472	1308	13	8951000776_A			BA-F-01		5000.0		4986.2588		5081.0000	05/24/95	15:51	ug		0.05	@ICP-F01		
473	1308	13	8951000776_A			BE-F-01		5000.0		5062.3413		5081.0000	05/24/95	15:51	ug		0.005	@ICP-F01		
474	1308	13	8951000776_A			BI-F-01		5000.0		2302.8730		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
475	1308	13	8951000776_A			CA-F-01		5000.0		5247.2895		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
476	1308	13	8951000776_A			CD-F-01		5000.0		5113.0283		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
477	1308	13	8951000776_A			CE-F-01		5000.0		4931.2407		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
478	1308	13	8951000776_A			CO-F-01		5000.0		5054.8042		5081.0000	05/24/95	15:51	ug		0.02	@ICP-F01		
479	1308	13	8951000776_A			CR-F-01		5000.0		5121.8411		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
480	1308	13	8951000776_A			CU-F-01		5000.0		4893.5583		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
481	1308	13	8951000776_A			FE-F-01		5000.0		5430.0352		5081.0000	05/24/95	15:51	ug		0.05	@ICP-F01		
482	1308	13	8951000776_A			K-F-01		0.0		4848086.0000		5081.0000	05/24/95	15:51	ug		0.3	@ICP-F01		
483	1308	13	8951000776_A			LA-F-01		5000.0		4899.5606		5081.0000	05/24/95	15:51	ug		0.05	@ICP-F01		
484	1308	13	8951000776_A			LI-F-01		5000.0		4875.8368		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
485	1308	13	8951000776_A			MG-F-01		5000.0		5128.0742		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
486	1308	13	8951000776_A			MN-F-01		5000.0		4864.3268		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
487	1308	13	8951000776_A			MO-F-01		5000.0		5185.8539		5081.0000	05/24/95	15:51	ug		0.05	@ICP-F01		
488	1308	13	8951000776_A			NA-F-01		5000.0		3150.9141		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
489	1308	13	8951000776_A			ND-F-01		5000.0		4882.1382		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
490	1308	13	8951000776_A			NI-F-01		5000.0		5154.8233		5081.0000	05/24/95	15:51	ug		0.02	@ICP-F01		
491	1308	13	8951000776_A			P-F-01		5000.0		5150.5899		5081.0000	05/24/95	15:51	ug		0.2	@ICP-F01		
492	1308	13	8951000776_A			PB-F-01		5000.0		5268.91756		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
493	1308	13	8951000776_A			S-F-01		5000.0		5158.88623		5081.0000	05/24/95	15:51	ug		0.05	@ICP-F01		
494	1308	13	8951000776_A			SB-F-01		5000.0		4842.2437		5081.0000	05/24/95	15:51	ug		0.2	@ICP-F01		
495	1308	13	8951000776_A			SE-F-01		5000.0		4141.8214		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
496	1308	13	8951000776_A			SI-F-01		5000.0		6027.9179		5081.0000	05/24/95	15:51	ug		0.05	@ICP-F01		
497	1308	13	8951000776_A			SM-F-01		5000.0		4864.0210		5081.0000	05/24/95	15:51	ug		0.1	@ICP-F01		
498	1308	13	8951000776_A			SR-F-01		5000.0		4746.387		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
499	1308	13	8951000776_A			TI-F-01		5000.0		4864.1397		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
500	1308	13	8951000776_A			TL-F-01		5000.0		4842.4617		5081.0000	05/24/95	15:51	ug		0.2	@ICP-F01		
501	1308	13	8951000776_A			U-F-01		10000.0		9477.0605		5081.0000	05/24/95	15:51	ug		0.4	@ICP-F01		
502	1308	13	8951000776_A			V-F-01		5000.0		4888.1748		5081.0000	05/24/95	15:51	ug		0.06	@ICP-F01		
503	1308	13	8951000776_A			Y-F-01		5000.0		5035.5137		5081.0000	05/24/95	15:51	ug		0.06	@ICP-F01		
504	1308	13	8951000776_A			ZN-F-01		5000.0		4811.2080		5081.0000	05/24/95	15:51	ug		0.01	@ICP-F01		
505	1308	14			ICBA	AG				0.0031		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
506	1308	14			ICBA	AL				241.8084		1.0000	05/24/95	15:55	ug		0.06	@ICP-QC		
507	1308	14			ICBA	AS				-0.0406		1.0000	05/24/95	15:55	ug		0.06	@ICP-QC		
508	1308	14			ICBA	B				0.0010		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
509	1308	14			ICBA	BA				0.0004		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
510	1308	14			ICBA	BE				-0.0001		1.0000	05/24/95	15:55	ug		0.005	@ICP-QC		
511	1308	14			ICBA	BI				0.0376		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
512	1308	14			ICBA	CA				246.7497		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
513	1308	14			ICBA	CD				-0.0004		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
514	1308	14			ICBA	CE				0.0198		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
515	1308	14			ICBA	CO				-0.0009		1.0000	05/24/95	15:55	ug		0.02	@ICP-QC		
516	1308	14			ICBA	CR		O		-0.0001		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
517	1308	14			ICBA	CU				-0.0009		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
518	1308	14			ICBA	EU				0.0078		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
519	1308	14			ICBA	FE				92.1407		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
520	1308	14			ICBA	K				-0.0352		1.0000	05/24/95	15:55	ug		0.3	@ICP-QC		
521	1308	14			ICBA	LA				-0.0026		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
522	1308	14			ICBA	LI				0.0019		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
523	1308	14			ICBA	MG				246.4411		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
524	1308	14			ICBA	MN				-0.0005		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
525	1308	14			ICBA	MO				-0.0146		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
526	1308	14			ICBA	NA				190.8605		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
527	1308	14			ICBA	ND				0.0150		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
528	1308	14			ICBA	NI				-0.0238		1.0000	05/24/95	15:55	ug		0.02	@ICP-QC		
529	1308	14			ICBA	P				0.0884		1.0000	05/24/95	15:55	ug		0.2	@ICP-QC		
530	1308	14			ICBA	PB				0.0639		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
531	1308	14			ICBA	S				0.0173		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
532	1308	14			ICBA	SB				0.0020		1.0000	05/24/95	15:55	ug		0.2	@ICP-QC		
533	1308	14			ICBA	SE				0.0642		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
534	1308	14			ICBA	SI				0.0310		1.0000	05/24/95	15:55	ug		0.05	@ICP-QC		
535	1308	14			ICBA	SM				-0.0092		1.0000	05/24/95	15:55	ug		0.1	@ICP-QC		
536	1308	14			ICBA	SR				-0.0035		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
537	1308	14			ICBA	TH				-0.0044		1.0000	05/24/95	15:55	ug		0	@ICP-QC		
538	1308	14			ICBA	TI				0.0002		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
539	1308	14			ICBA	TL				0.0160		1.0000	05/24/95	15:55	ug		0.2	@ICP-QC		
540	1308	14			ICBA	U				0.1314		1.0000	05/24/95	15:55	ug		0.4	@ICP-QC		
541	1308	14			ICBA	V				-0.0006		1.0000	05/24/95	15:55	ug		0.06	@ICP-QC		
542	1308	14			ICBA	Y				0.0171		1.0000	05/24/95	15:55	ug		0.06	@ICP-QC		
543	1308	14			ICBA	ZN				-0.0243		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
544	1308	14			ICBA	ZR				-0.0034		1.0000	05/24/95	15:55	ug		0.01	@ICP-QC		
545	1308	15			ICSAB	AG				0.9418		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
546	1308	15			ICSAB	AL				241.6516		1.0000	05/24/95	15:58	ug		0.06	@ICP-QC		
547	1308	15			ICSAB	AS				-0.0813		1.0000	05/24/95	15:58	ug		0.06	@ICP-QC		
548	1308	15			ICSAB	B				0.0023		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
549	1308	15			ICSAB	BA				0.4668		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
550	1308	15			ICSAB	BE				0.4718		1.0000	05/24/95	15:58	ug		0.005	@ICP-QC		
551	1308	15			ICSAB	BI				0.0434		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
552	1308	15			ICSAB	CA				240.7424		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
553	1308	15			ICSAB	CD				0.9226		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
554	1308	15			ICSAB	CE				0.0124		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
555	1308	15			ICSAB	CO				0.4579		1.0000	05/24/95	15:58	ug		0.02	@ICP-QC		
556	1308	15			ICSAB	CR				0.4579		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
557	1308	15			ICSAB	CU				0.4798		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
558	1308	15			ICSAB	EU				0.0462		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
559	1308	15			ICSAB	FE				90.8617		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
560	1308	15			ICSAB	K				-0.0438		1.0000	05/24/95	15:58	ug		0.3	@ICP-QC		
561	1308	15			ICSAB	LA				-0.0026		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
562	1308	15			ICSAB	LI				0.0033		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
563	1308	15			ICSAB	MG				246.6664		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
564	1308	15			ICSAB	MN				0.4370		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
565	1308	15			ICSAB	MO				-0.0172		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
566	1308	15			ICSAB	NA				191.9770		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
567	1308	15			ICSAB	ND				0.0175		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
568	1308	15			ICSAB	NI				0.9818		1.0000	05/24/95	15:58	ug		0.02	@ICP-QC		
569	1308	15			ICSAB	P				0.0821		1.0000	05/24/95	15:58	ug		0.2	@ICP-QC		
570	1308	15			ICSAB	PB				0.0684		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
571	1308	15			ICSAB	S				0.0295		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
572	1308	15			ICSAB	SB				0.0097		1.0000	05/24/95	15:58	ug		0.2	@ICP-QC		
573	1308	15			ICSAB	SE				0.0699		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
574	1308	15			ICSAB	SI				0.0274		1.0000	05/24/95	15:58	ug		0.05	@ICP-QC		
575	1308	15			ICSAB	SM				-0.0120		1.0000	05/24/95	15:58	ug		0.1	@ICP-QC		
576	1308	15			ICSAB	SR				-0.0033		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
577	1308	15			ICSAB	TH				-0.0080		1.0000	05/24/95	15:58	ug		0	@ICP-QC		
578	1308	15			ICSAB	TI				0.0028		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
579	1308	15			ICSAB	TL				0.0181		1.0000	05/24/95	15:58	ug		0.2	@ICP-QC		
580	1308	15			ICSAB	U				0.1808		1.0000	05/24/95	15:58	ug		0.4	@ICP-QC		
581	1308	15			ICSAB	V				0.4610		1.0000	05/24/95	15:58	ug		0.06	@ICP-QC		
582	1308	15			ICSAB	Y				0.0185		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
583	1308	15			ICSAB	ZN				0.8283		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
584	1308	15			ICSAB	ZR				0.0043		1.0000	05/24/95	15:58	ug		0.01	@ICP-QC		
585	1308	16			CCV	AG				4.8863		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		
586	1308	16			CCV	AL				5.0470		1.0000	05/24/95	16:03	ug		0.06	@ICP-QC		
587	1308	16			CCV	AS				5.1634		1.0000	05/24/95	16:03	ug		0.06	@ICP-QC		
588	1308	16			CCV	B				5.0282		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
589	1308	16			CCV	BA				5.0022		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
590	1308	16			CCV	BE				5.2697		1.0000	05/24/95	16:03	ug		0.005	@ICP-QC		
591	1308	16			CCV	BI				5.1534		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
592	1308	16			CCV	CA				5.1469		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
593	1308	16			CCV	CD				5.1175		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		
594	1308	16			CCV	CE				5.1031		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
595	1308	16			CCV	CO				5.1119		1.0000	05/24/95	16:03	ug		0.02	@ICP-QC		
596	1308	16			CCV	CR				5.1285		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		
597	1308	16			CCV	CU				5.1085		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		
598	1308	16			CCV	EU				5.0116		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
599	1308	16			CCV	FE				5.1218		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
600	1308	16			CCV	K				4.9449		1.0000	05/24/95	16:03	ug		0.3	@ICP-QC		
601	1308	16			CCV	LA				5.1115		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
602	1308	16			CCV	LI				5.1429		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		
603	1308	16			CCV	MG				5.0245		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
604	1308	16			CCV	MN				5.0331		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		
605	1308	16			CCV	MO				5.1288		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
606	1308	16			CCV	NA				5.0640		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
607	1308	16			CCV	ND				5.2513		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
608	1308	16			CCV	NI				5.0864		1.0000	05/24/95	16:03	ug		0.02	@ICP-QC		
609	1308	16			CCV	P				5.2172		1.0000	05/24/95	16:03	ug		0.2	@ICP-QC		
610	1308	16			CCV	PB				5.1075		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
611	1308	16			CCV	S				5.0786		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
612	1308	16			CCV	SB				4.9400		1.0000	05/24/95	16:03	ug		0.2	@ICP-QC		
613	1308	16			CCV	SE				5.1239		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
614	1308	16			CCV	SI				5.7805		1.0000	05/24/95	16:03	ug		0.05	@ICP-QC		
615	1308	16			CCV	SM				5.1197		1.0000	05/24/95	16:03	ug		0.1	@ICP-QC		
616	1308	16			CCV	SR				5.0098		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		
617	1308	16			CCV	TH				-0.0207		1.0000	05/24/95	16:03	ug		0	@ICP-QC		
618	1308	16			CCV	TI				4.9460		1.0000	05/24/95	16:03	ug		0.01	@ICP-QC		

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
617	1308	16			CCV	TL				4.8381		1.0000	05/24/95	16:03	Mg	0.2	@ICP-OC			
618	1308	16			CCV	U				10.1325		1.0000	05/24/95	16:03		0.4	@ICP-OC			
619	1308	16			CCV	V				4.9210		1.0000	05/24/95	16:03		0.05	@ICP-OC			
620	1308	16			CCV	Y				0.0127		1.0000	05/24/95	16:03		0.01	@ICP-OC			
621	1308	16			CCV	ZN				5.1257		1.0000	05/24/95	16:03		0.01	@ICP-OC			
622	1308	16			CCV	ZR				5.0521		1.0000	05/24/95	16:03		0.01	@ICP-OC			
623	1308	17			CCB	AG				0.0023		1.0000	05/24/95	16:08		0.01	@ICP-OC			
624	1308	17			CCB	AL				0.0054		1.0000	05/24/95	16:08		0.05	@ICP-OC			
625	1308	17			CCB	AS				0.0039		1.0000	05/24/95	16:08		0.05	@ICP-OC			
626	1308	17			CCB	B				0.0039		1.0000	05/24/95	16:08		0.05	@ICP-OC			
627	1308	17			CCB	BA				0.0002		1.0000	05/24/95	16:08		0.05	@ICP-OC			
628	1308	17			CCB	BE				0.0000		1.0000	05/24/95	16:08		0.005	@ICP-OC			
629	1308	17			CCB	BI				0.0001		1.0000	05/24/95	16:08		0.1	@ICP-OC			
630	1308	17			CCB	CA				0.0034		1.0000	05/24/95	16:08		0.1	@ICP-OC			
631	1308	17			CCB	CD				0.0004		1.0000	05/24/95	16:08		0.01	@ICP-OC			
632	1308	17			CCB	CE				0.0112		1.0000	05/24/95	16:08		0.1	@ICP-OC			
633	1308	17			CCB	CO				-0.0014		1.0000	05/24/95	16:08		0.02	@ICP-OC			
634	1308	17			CCB	CR				0.0006		1.0000	05/24/95	16:08		0.01	@ICP-OC			
635	1308	17			CCB	CU				-0.0008		1.0000	05/24/95	16:08		0.01	@ICP-OC			
636	1308	17			CCB	EU				0.0001		1.0000	05/24/95	16:08		0.05	@ICP-OC			
637	1308	17			CCB	FE				0.0022		1.0000	05/24/95	16:08		0.05	@ICP-OC			
638	1308	17			CCB	K				-0.1048		1.0000	05/24/95	16:08		0.2	@ICP-OC			
639	1308	17			CCB	LA				0.0017		1.0000	05/24/95	16:08		0.05	@ICP-OC			
640	1308	17			CCB	LI				0.0005		1.0000	05/24/95	16:08		0.01	@ICP-OC			
641	1308	17			CCB	MG				0.0141		1.0000	05/24/95	16:08		0.1	@ICP-OC			
642	1308	17			CCB	MN				0.0002		1.0000	05/24/95	16:08		0.01	@ICP-OC			
643	1308	17			CCB	MO				-0.0039		1.0000	05/24/95	16:08		0.05	@ICP-OC			
644	1308	17			CCB	NA				-0.0004		1.0000	05/24/95	16:08		0.1	@ICP-OC			
645	1308	17			CCB	ND				0.0015		1.0000	05/24/95	16:08		0.1	@ICP-OC			
646	1308	17			CCB	NI				-0.0019		1.0000	05/24/95	16:08		0.02	@ICP-OC			
647	1308	17			CCB	P				-0.0186		1.0000	05/24/95	16:08		0.2	@ICP-OC			
648	1308	17			CCB	PB				0.0101		1.0000	05/24/95	16:08		0.1	@ICP-OC			
649	1308	17			CCB	S				-0.0080		1.0000	05/24/95	16:08		0.05	@ICP-OC			
650	1308	17			CCB	SB				0.0084		1.0000	05/24/95	16:08		0.2	@ICP-OC			
651	1308	17			CCB	SE				0.0153		1.0000	05/24/95	16:08		0.1	@ICP-OC			
652	1308	17			CCB	SI				0.0040		1.0000	05/24/95	16:08		0.05	@ICP-OC			
653	1308	17			CCB	SN				-0.0001		1.0000	05/24/95	16:08		0.1	@ICP-OC			
654	1308	17			CCB	SR				-0.0002		1.0000	05/24/95	16:08		0.01	@ICP-OC			
655	1308	17			CCB	TH				0.0051		1.0000	05/24/95	16:08		0	@ICP-OC			
656	1308	17			CCB	TI				0.0000		1.0000	05/24/95	16:08		0.01	@ICP-OC			
657	1308	17			CCB	TL				0.0038		1.0000	05/24/95	16:08		0.2	@ICP-OC			
658	1308	17			CCB	U				0.0080		1.0000	05/24/95	16:08		0.4	@ICP-OC			
659	1308	17			CCB	V				-0.0002		1.0000	05/24/95	16:08		0.05	@ICP-OC			
660	1308	17			CCB	Y				-0.0001		1.0000	05/24/95	16:08		0.01	@ICP-OC			
661	1308	17			CCB	ZN				0.0023		1.0000	05/24/95	16:08		0.01	@ICP-OC			
662	1308	17			CCB	ZR				-0.0001		1.0000	05/24/95	16:08		0.01	@ICP-OC			

WHC-SD-WM-DP-154, REV. 0

5/24/95

LABCORE Data Entry Template for Worklist# 1307

Analyst: B. Goeckle **Instrument:** ~~ICP01~~ ICP02 05-24-95 **Book#** 41B4B

Method: LA-505-~~151~~ KY 05-24-95 Rev/Mod A-1

Worklist Comment: ICP BX-109 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T000778	0	F	@ICP-F01	SOLID	95000057	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
7	DUP	S95T000778	0	F	@ICP-F01	SOLID		
8	SPK	S95T000778	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T000781	0	F	@ICP-F01	SOLID	95000059	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
12	DUP	S95T000781	0	F	@ICP-F01	SOLID		

Data Entry Comments:

SP 05/30/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1307

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T000781	0	F	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 1307

E Vaquera 5-24-95
Analyst Signature Date

Analyst Signature Date

		D.F.
PREPBLK TJA	1mL-5mL	10
S95T000778	.4656g in 250mL-1mL-5mL	5369
5X	2mL-5mL	26847
S95T000778-D	.4878g in 250mL-1mL-5mL	5125
S95T000778-A	.4656g in 250mL 1mL-2mL-7mL	5369
S95T000781	.5135g in 250mL-1mL-5mL	4868
5X	2mL-5mL	24343
S95T000781-D	.5231g in 250mL-1mL-5mL	4779
S95T000781-A	.5135g in 250mL-1mL-2mL-7mL	4868

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950524D	ICP2	05/24/95	16:58	BJG	Q	CONC
2	ICB	950524D	ICP2	05/24/95	17:02	BJG	Q	CONC
3	ICSA	950524D	ICP2	05/24/95	17:05	BJG	Q	CONC
4	ICSAB	950524D	ICP2	05/24/95	17:10	BJG	Q	CONC
5	PREPBLKTJA	950524D	ICP2	05/24/95	17:14	BJG	S	CONC
6	S95T000778_L	950524D	ICP2	05/24/95	17:18	BJG	S	CONC
7	S95T000778	950524D	ICP2	05/24/95	17:21	BJG	S	CONC
8	S95T000778_D	950524D	ICP2	05/24/95	17:25	BJG	S	CONC
9	S95T000778_A	950524D	ICP2	05/24/95	17:30	BJG	S	CONC
10	CCV	950524D	ICP2	05/24/95	17:53	BJG	Q	CONC
11	CCB	950524D	ICP2	05/24/95	17:57	BJG	Q	CONC
12	S95T000781_L	950524D	ICP2	05/24/95	18:01	BJG	S	CONC
13	S95T000781	950524D	ICP2	05/24/95	18:04	BJG	S	CONC
14	S95T000781_D	950524D	ICP2	05/24/95	18:08	BJG	S	CONC
15	S95T000781_A	950524D	ICP2	05/24/95	18:12	BJG	S	CONC
16	ICSA	950524D	ICP2	05/24/95	18:15	BJG	Q	CONC
17	ICSAB	950524D	ICP2	05/24/95	18:19	BJG	Q	CONC
18	CCV_1	950524D	ICP2	05/24/95	18:24	BJG	Q	CONC
19	CCB_1	950524D	ICP2	05/24/95	18:27	BJG	Q	CONC

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

B/E 5-24-95 BX-109 Fusion S95T000778, 781 Inl-Sml, SX

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 527 TO 536

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.937	4.997	5.130	4.983	4.929	5.212
2	ICB	-.0003	.0012	.0010	-.0015	.0001	-.0001
3	ICSA	.0002	237.8	-.0245	.0020	.0032	-.0002
4	ICSAB	.9438	240.0	-.0488	.0036	.4568	.4705
5	PREPBLKTJA	-.0010	.2257	.1504	-.0395	.0151	-.0037
6	S95T000778_L	35.99	529.5	456.8	21.05	37.20	-12.86
7	S95T000778_	-2.343	464.8	41.67	25.75	34.09	-1.601
8	S95T000778_D	16.40	660.6	72.29	35.20	32.51	-.9740
9	S95T000778_A	3572.	5535.	5650.	5050.	4840.	5328.
10	CCV	4.929	4.912	5.118	4.960	4.836	5.084
11	CCB	.0025	.0070	.0076	.0132	.0001	.0000
12	S95T000781_L	38.56	7712.	118.0	164.1	73.12	-8.674
13	S95T000781_	8.713	7397.	92.18	49.86	67.53	-1.051
14	S95T000781_D	1.340	7359.	22.27	51.91	66.31	-1.351
15	S95T000781_A	2926.	12050.	4964.	4546.	4424.	4655.
16	ICSA	.0054	234.0	-.0606	.0064	.0034	.0000
17	ICSAB	.9184	234.4	-.0770	.0091	.4464	.4568
18	CCV_1	4.888	4.940	5.027	4.922	4.888	5.072
19	CCB_1	.0013	.0122	.0054	.0117	.0000	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.026	5.130	5.139	5.056	5.108	5.114
2	ICB	.0013	.0022	.0002	.0003	-.0004	.0011
3	ICSA	.0265	236.7	-.0015	.0027	-.0007	-.0060
4	ICSAB	.0462	243.0	.9281	.0099	.4585	.4572
5	PREPBLKTJA	-8.352	.6535	-.0025	-.0389	.0202	.0077
6	S95T000778_L	-4512.	758.6	-15.20	250.3	-30.14	169.4
7	S95T000778_	-4868.	1167.	-5.813	42.16	2.362	125.6
8	S95T000778_D	-3701.	1053.	1.900	73.24	-3.341	128.0
9	S95T000778_A	224.1	6749.	5513.	5007.	5406.	5589.
10	CCV	4.971	5.119	5.112	4.940	5.088	5.091
11	CCB	-.0143	.0036	.0014	.0049	.0010	-.0007
12	S95T000781_L	-4287.	4428.	24.66	346.6	-14.40	59.33
13	S95T000781_	-3962.	4698.	4.788	65.08	11.92	86.22
14	S95T000781_D	-3548.	4922.	-6.043	-21.57	-1.377	87.38
15	S95T000781_A	735.7	9579.	4716.	4636.	4683.	4804.
16	ICSA	.0384	237.1	.0012	.0294	.0020	-.0046
17	ICSAB	.0378	233.4	.8967	.0108	.4473	.4447
18	CCV_1	4.923	4.984	4.990	4.983	4.981	5.001
19	CCB_1	-.0154	-.0023	.0021	.0051	.0004	-.0005

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.051	.0115	5.129	4.937	5.057	4.968
2	ICB	.0000	-.0001	.0001	-.0404	.0004	.0000
3	ICSA	-.0085	.0474	89.31	-.2186	-.0036	.0017
4	ICSAB	.4742	.0437	90.89	-.1537	-.0031	.9807
5	PREPBLKTJA	.0236	.0162	.0789	12110.	-.0133	.0037
6	S95T000778_L	27.78	60.75	13280.	7682e3	36.93	66.28
7	S95T000778_	19.09	22.50	13010.	7317e3	9.066	41.73

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	Cu	Eu	Fe	K	La	Li
6	S95T000778_D	21.69	19.44	13420.	5669e3	13.87	43.11
9	S95T000778_A	5027.	28.15	18760.	7608e3	5029.	4745.
10	CCV	4.928	.0129	5.058	4.937	4.927	4.821
11	CCB	-.0013	.0003	.0007	.0012	.0004	.0004
12	S95T000781_L	16.06	-12.72	23400.	5981e3	39.93	-7.176
13	S95T000781	35.97	7.454	22410.	5692e3	18.56	11.00
14	S95T000781_D	31.64	7.720	23980.	5314e3	3.837	9.862
15	S95T000781_A	4557.	21.34	27510.	5755e3	4534.	4454.
16	ICSA	-.0082	.0525	89.09	.3013	-.0003	.0021
17	ICSAB	.4612	.0623	88.24	.0930	-.0036	.9657
18	CCV_1	4.994	.0112	4.982	5.130	4.983	5.039
19	CCB_1	-.0004	-.0006	-.0008	-.0600	.0001	-.0005

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.977	4.987	5.116	4.902	5.179	5.058
2	ICB	.0081	.0003	.0025	-.0010	.0013	-.0003
3	ICSA	243.8	-.0068	-.0133	189.6	.0176	-.0284
4	ICSAB	246.0	.4391	-.0135	190.0	.0183	.8882
5	PREPBLKTJA	.3349	.0330	-.0126	4.044	.0337	7.827
6	S95T000778_L	716.5	88.76	-63.32	106700.	124.1	6801.
7	S95T000778	389.2	83.23	-4.663	102100.	27.24	6570.
8	S95T000778_D	356.9	80.01	-3.766	103900.	18.23	5246.
9	S95T000778_A	5218.	5261.	5503.	110900.	5104.	12290.
10	CCV	4.894	4.968	5.060	4.801	5.046	5.059
11	CCB	-.0165	.0002	-.0005	.0046	-.0042	-.0067
12	S95T000781_L	953.2	177.2	32.59	104500.	-22.10	5476.
13	S95T000781	1046.	179.8	12.78	100700.	35.24	5353.
14	S95T000781_D	1045.	191.6	-8.893	103800.	29.03	5816.
15	S95T000781_A	5539.	4650.	4760.	106100.	4672.	10170.
16	ICSA	242.3	-.0070	-.0126	185.5	.0214	-.0248
17	ICSAB	241.5	.4246	-.0146	187.1	.0204	.8692
18	CCV_1	4.883	4.874	4.983	4.945	5.128	5.002
19	CCB_1	-.0022	-.0001	.0005	-.0054	-.0018	-.0048

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.173	5.098	5.052	4.836	5.147	4.726
2	ICB	-.0065	.0129	-.0126	.0084	-.0000	.0023
3	ICSA	.0616	.0346	.0063	.0135	.0906	.0271
4	ICSAB	.0660	.9834	.0177	.0153	.0642	.0288
5	PREPBLKTJA	.1013	.4788	.1666	.0220	-2.203	.3548
6	S95T000778_L	17590.	1675.	7022.	300.8	-414.5	427.3
7	S95T000778	17210.	843.5	6906.	15.08	-1305.	568.2
8	S95T000778_D	17390.	820.4	7015.	45.45	-788.9	527.4
9	S95T000778_A	23570.	6342.	12480.	5202.	4008.	5843.
10	CCV	5.053	5.118	5.031	4.805	5.066	4.720
11	CCB	.0174	.0206	.0013	.0207	.0029	.0104
12	S95T000781_L	15820.	396.8	6039.	452.7	-1254.	510.3
13	S95T000781	15440.	499.6	5922.	42.86	-1075.	829.3
14	S95T000781_D	15670.	584.1	6029.	26.91	-1071.	879.6
15	S95T000781_A	20460.	5258.	10810.	4596.	3581.	5429.

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	.0785	.0692	.0454	.0166	.0728	.0299
17	ICSAB	.0729	.9316	.0227	.0148	.0517	.0297
18	CCV_1	4.901	4.967	4.974	4.738	5.025	4.658
19	CCB_1	-.0029	.0001	.0046	.0102	-.0076	.0020

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.076	4.958	-.0063	4.932	5.030	10.02
2	ICB	.0013	.0004	.0016	.0000	.0084	.0085
3	ICSA	-.0150	-.0034	-.0127	.0006	.0402	.1645
4	ICSAB	-.0110	-.0033	-.0095	-.0000	-.0042	.1422
5	PREPBLKTJA	.1087	-.0016	.1827	.0213	.0398	-3.019
6	S95T000778_L	560.0	412.1	267.0	-4.857	-266.0	16040.
7	S95T000778	224.2	395.6	111.1	21.91	-30.04	13910.
8	S95T000778_D	193.2	409.5	118.8	26.30	39.26	14440.
9	S95T000778_A	5124.	5336.	93.00	5108.	5264.	23960.
10	CCV	4.927	4.823	-.0282	4.821	4.903	9.739
11	CCB	.0070	-.0004	-.0024	-.0004	-.0305	.0333
12	S95T000781_L	-115.1	611.4	188.4	85.75	-583.1	6460.
13	S95T000781	24.32	576.7	105.0	123.3	-25.97	6755.
14	S95T000781_D	36.46	612.1	29.54	126.1	-134.7	5935.
15	S95T000781_A	4536.	5007.	91.87	4590.	4527.	15840.
16	ICSA	-.0035	-.0030	.0080	.0014	.0186	.2277
17	ICSAB	-.0083	-.0028	-.0145	.0014	-.0180	.2265
18	CCV_1	5.007	4.888	-.0294	4.825	4.780	9.878
19	CCB_1	-.0027	-.0000	.0003	.0006	-.0072	-.0221

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.894	.0128	5.105	5.021
2	ICB	.0007	-.0001	.0001	-.0001
3	ICSA	-.0018	.0164	-.0248	-.0037
4	ICSAB	.4613	.0166	.9295	-.0033
5	PREPBLKTJA	.0330	.0055	.1543	.0420
6	S95T000778_L	146.6	37.88	308.3	70.94
7	S95T000778	56.71	20.62	154.0	31.85
8	S95T000778_D	54.49	19.28	100.9	19.26
9	S95T000778_A	5201.	30.72	5620.	5193.
10	CCV	4.828	.0134	5.107	4.925
11	CCB	.0006	.0003	.0010	.0016
12	S95T000781_L	-13.07	1.908	433.6	-34.88
13	S95T000781	10.60	12.98	144.0	2.823
14	S95T000781_D	10.59	12.74	125.0	.5040
15	S95T000781_A	4506.	25.95	4883.	4545.
16	ICSA	-.0020	.0171	-.0232	-.0023
17	ICSAB	.4457	.0164	.9026	-.0014
18	CCV_1	4.798	.0126	5.001	4.920
19	CCB_1	-.0011	-.0002	.0019	-.0006

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

1307	1		ICV	AG	4.9374	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	AL	4.9909	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	AS	5.13	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	B	4.9627	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	BA	4.9292	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	BE	5.2123	1	5/24/95	16:58	bg	0.005 @ICP-QC
1307	1		ICV	BI	5.0259	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	CA	5.1298	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	CD	5.139	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	CE	5.0584	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	CO	5.1081	1	5/24/95	16:58	bg	0.02 @ICP-QC
1307	1		ICV	CR	5.1139	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	CU	5.0505	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	EU	0.0115	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	FE	5.1286	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	K	4.9369	1	5/24/95	16:58	bg	0.3 @ICP-QC
1307	1		ICV	LA	5.057	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	LI	4.9882	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	MG	4.9766	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	MN	4.8896	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	MO	5.1163	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	NA	4.9024	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	ND	5.1786	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	NI	5.0583	1	5/24/95	16:58	bg	0.02 @ICP-QC
1307	1		ICV	P	5.1734	1	5/24/95	16:58	bg	0.2 @ICP-QC
1307	1		ICV	PB	5.0976	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	S	5.0521	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	SB	4.8365	1	5/24/95	16:58	bg	0.2 @ICP-QC
1307	1		ICV	SE	5.1474	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	SI	4.726	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	SM	5.0755	1	5/24/95	16:58	bg	0.1 @ICP-QC
1307	1		ICV	SR	4.9578	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	TH	-0.0063	1	5/24/95	16:58	bg	0 @ICP-QC
1307	1		ICV	TI	4.9322	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	TL	5.0297	1	5/24/95	16:58	bg	0.2 @ICP-QC
1307	1		ICV	U	10.0185	1	5/24/95	16:58	bg	0.4 @ICP-QC
1307	1		ICV	V	4.8842	1	5/24/95	16:58	bg	0.05 @ICP-QC
1307	1		ICV	Y	0.0128	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	ZN	5.105	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	1		ICV	ZR	5.0207	1	5/24/95	16:58	bg	0.01 @ICP-QC
1307	2		ICB	AG	-0.0003	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	AL	0.0012	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	AS	0.001	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	B	-0.0015	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	BA	0.0001	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	BE	-0.0001	1	5/24/95	17:02	bg	0.005 @ICP-QC
1307	2		ICB	BI	0.0013	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	CA	0.0022	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	CD	0.0002	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	CE	0.0003	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	CO	-0.0004	1	5/24/95	17:02	bg	0.02 @ICP-QC
1307	2		ICB	CR	0.0011	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	CU	0	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	EU	-0.0001	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	FE	0.0001	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	K	-0.0404	1	5/24/95	17:02	bg	0.3 @ICP-QC
1307	2		ICB	LA	0.0004	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	LI	0	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	MG	0.0081	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	MN	0.0003	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	MO	0.0025	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	NA	-0.001	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	ND	0.0013	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	NI	-0.0003	1	5/24/95	17:02	bg	0.02 @ICP-QC
1307	2		ICB	P	-0.0085	1	5/24/95	17:02	bg	0.2 @ICP-QC
1307	2		ICB	PB	0.0129	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	S	-0.0126	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	SB	0.0084	1	5/24/95	17:02	bg	0.2 @ICP-QC
1307	2		ICB	SE	0	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	SI	0.0023	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	SM	0.0013	1	5/24/95	17:02	bg	0.1 @ICP-QC
1307	2		ICB	SR	0.0004	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	TH	0.0016	1	5/24/95	17:02	bg	0 @ICP-QC
1307	2		ICB	TI	0	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	TL	0.0085	1	5/24/95	17:02	bg	0.2 @ICP-QC
1307	2		ICB	U	0.0085	1	5/24/95	17:02	bg	0.4 @ICP-QC
1307	2		ICB	V	0.0007	1	5/24/95	17:02	bg	0.05 @ICP-QC
1307	2		ICB	Y	-0.0002	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	ZN	0.0001	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	2		ICB	ZR	-0.0001	1	5/24/95	17:02	bg	0.01 @ICP-QC
1307	3		ICSA	AG	0.0002	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	AL	237.7799	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	AS	-0.0245	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	B	0.002	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	BA	0.0032	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	BE	-0.0002	1	5/24/95	17:05	bg	0.005 @ICP-QC
1307	3		ICSA	BI	0.0285	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	CA	238.7125	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	CD	-0.0015	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	CE	0.0027	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	CO	-0.0007	1	5/24/95	17:05	bg	0.02 @ICP-QC
1307	3		ICSA	CR	-0.006	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	CU	-0.0085	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	EU	0.0474	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	FE	89.313	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	K	-0.2186	1	5/24/95	17:05	bg	0.3 @ICP-QC
1307	3		ICSA	LA	-0.0036	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	LI	0.0017	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	MG	243.8109	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	MN	-0.0068	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	MO	-0.0133	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	NA	189.552	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	ND	0.0176	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	NI	-0.0284	1	5/24/95	17:05	bg	0.02 @ICP-QC
1307	3		ICSA	P	0.0616	1	5/24/95	17:05	bg	0.2 @ICP-QC
1307	3		ICSA	PB	0.0346	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	S	0.0083	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	SB	0.0136	1	5/24/95	17:05	bg	0.2 @ICP-QC
1307	3		ICSA	SE	0.0906	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	SI	0.0271	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	SM	-0.015	1	5/24/95	17:05	bg	0.1 @ICP-QC
1307	3		ICSA	SR	-0.0034	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	TH	-0.0127	1	5/24/95	17:05	bg	0 @ICP-QC
1307	3		ICSA	TI	0.0006	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	TL	0.0402	1	5/24/95	17:05	bg	0.2 @ICP-QC
1307	3		ICSA	U	0.1545	1	5/24/95	17:05	bg	0.4 @ICP-QC
1307	3		ICSA	V	-0.0018	1	5/24/95	17:05	bg	0.05 @ICP-QC
1307	3		ICSA	Y	0.0164	1	5/24/95	17:05	bg	0.01 @ICP-QC

1307	3		ICSA	ZN		-0.0248	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	3		ICSA	ZR		-0.0037	1	5/24/95	17:05	bg	0.01 @ICP-QC
1307	4		ICSAB	AG		0.9436	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	AL		240.0091	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	AS		-0.0488	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	B		0.0036	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	BA		0.4588	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	BE		0.4705	1	5/24/95	17:10	bg	0.005 @ICP-QC
1307	4		ICSAB	BI		0.0462	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	CA		243.0195	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	CD		0.9281	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	CE		0.0099	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	CO		0.4585	1	5/24/95	17:10	bg	0.02 @ICP-QC
1307	4		ICSAB	CR		0.4572	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	CU		0.4742	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	EU		0.0437	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	FE		90.89	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	K		-0.1537	1	5/24/95	17:10	bg	0.3 @ICP-QC
1307	4		ICSAB	LA		-0.0031	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	LI		0.9807	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	MG		245.9528	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	MN		0.4391	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	MO		-0.0135	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	NA		188.959	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	ND		0.0183	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	NI		0.8882	1	5/24/95	17:10	bg	0.02 @ICP-QC
1307	4		ICSAB	P		0.066	1	5/24/95	17:10	bg	0.2 @ICP-QC
1307	4		ICSAB	PB		0.9834	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	S		0.0177	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	SB		0.0153	1	5/24/95	17:10	bg	0.2 @ICP-QC
1307	4		ICSAB	SE		0.0642	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	SI		0.0288	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	SM		-0.011	1	5/24/95	17:10	bg	0.1 @ICP-QC
1307	4		ICSAB	SR		-0.0033	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	TH		-0.0095	1	5/24/95	17:10	bg	0 @ICP-QC
1307	4		ICSAB	TI		0	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	TL		-0.0042	1	5/24/95	17:10	bg	0.2 @ICP-QC
1307	4		ICSAB	U		0.1422	1	5/24/95	17:10	bg	0.4 @ICP-QC
1307	4		ICSAB	V		0.4613	1	5/24/95	17:10	bg	0.05 @ICP-QC
1307	4		ICSAB	Y		0.0166	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	ZN		0.9295	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	4		ICSAB	ZR		-0.0033	1	5/24/95	17:10	bg	0.01 @ICP-QC
1307	5		PREPBLKTJA	AG-F-01		-0.001	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	AL-F-01		0.2257	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	AS-F-01		0.1504	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	B-F-01		-0.0395	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	BA-F-01		0.0151	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	BE-F-01		-0.0037	10	5/24/95	17:14	bg	0.005 @ICP-F0
1307	5		PREPBLKTJA	BI-F-01		-8.3525	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	CA-F-01		0.8535	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	CD-F-01		-0.0025	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	CE-F-01		-0.0389	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	CO-F-01		0.0202	10	5/24/95	17:14	bg	0.02 @ICP-F0
1307	5		PREPBLKTJA	CR-F-01		0.0077	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	CU-F-01		0.0236	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	EU-F-01		0.0162	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	FE-F-01		0.0789	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	K-F-01		12113.5654	10	5/24/95	17:14	bg	0.3 @ICP-F0
1307	5		PREPBLKTJA	LA-F-01		-0.0133	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	LI-F-01		0.0037	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	MG-F-01		0.3349	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	MN-F-01		0.033	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	MO-F-01		-0.0126	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	NA-F-01		4.044	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	ND-F-01		0.0337	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	NI-F-01		7.8269	10	5/24/95	17:14	bg	0.02 @ICP-F0
1307	5		PREPBLKTJA	P-F-01		0.1013	10	5/24/95	17:14	bg	0.2 @ICP-F0
1307	5		PREPBLKTJA	PB-F-01		0.4788	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	S-F-01		0.1665	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	SB-F-01		0.022	10	5/24/95	17:14	bg	0.2 @ICP-F0
1307	5		PREPBLKTJA	SE-F-01		-2.2031	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	SI-F-01		0.3548	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	SM-F-01		0.1087	10	5/24/95	17:14	bg	0.1 @ICP-F0
1307	5		PREPBLKTJA	SR-F-01		-0.0018	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	TH-F-01		0.1827	10	5/24/95	17:14	bg	0 @ICP-F0
1307	5		PREPBLKTJA	TI-F-01		0.0213	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	TL-F-01		0.0398	10	5/24/95	17:14	bg	0.2 @ICP-F0
1307	5		PREPBLKTJA	U-F-01		-3.0194	10	5/24/95	17:14	bg	0.4 @ICP-F0
1307	5		PREPBLKTJA	V-F-01		0.033	10	5/24/95	17:14	bg	0.05 @ICP-F0
1307	5		PREPBLKTJA	Y-F-01		0.0055	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	ZN-F-01		0.1543	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	5		PREPBLKTJA	ZR-F-01		0.042	10	5/24/95	17:14	bg	0.01 @ICP-F0
1307	6	S95T000778		AG-F-01	<	53.69	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		AL-F-01		464.8473	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		AS-F-01	<	268.45	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		B-F-01	<	268.45	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		BA-F-01	<	268.45	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		BE-F-01	<	26.845	5369	5/24/95	17:21	bg	0.005 @ICP-F0
1307	6	S95T000778		BI-F-01	<	536.9	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		CA-F-01		1166.7399	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		CD-F-01	<	53.69	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		CE-F-01	<	536.9	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		CO-F-01	<	107.38	5369	5/24/95	17:21	bg	0.02 @ICP-F0
1307	6	S95T000778		CR-F-01		125.6436	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		CU-F-01	<	53.69	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		FE-F-01		13006.8018	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		K-F-01		7316592	5369	5/24/95	17:21	bg	0.3 @ICP-F0
1307	6	S95T000778		LA-F-01	<	268.45	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		LI-F-01	<	53.69	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		MG-F-01	<	536.9	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		MN-F-01		83.2294	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		MO-F-01	<	268.45	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		NA-F-01		102122.015	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		ND-F-01	<	536.9	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		NI-F-01		8570.3101	5369	5/24/95	17:21	bg	0.02 @ICP-F0
1307	6	S95T000778		P-F-01		17214.6738	5369	5/24/95	17:21	bg	0.2 @ICP-F0
1307	6	S95T000778		PB-F-01		843.4915	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		S-F-01		6905.8862	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		SB-F-01	<	1073.8	5369	5/24/95	17:21	bg	0.2 @ICP-F0
1307	6	S95T000778		SE-F-01	<	536.9	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		SI-F-01		568.1861	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		SM-F-01	<	536.9	5369	5/24/95	17:21	bg	0.1 @ICP-F0
1307	6	S95T000778		SR-F-01		395.5617	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		TI-F-01	<	53.69	5369	5/24/95	17:21	bg	0.01 @ICP-F0
1307	6	S95T000778		TL-F-01	<	1073.8	5369	5/24/95	17:21	bg	0.2 @ICP-F0
1307	6	S95T000778		U-F-01		13905.882	5369	5/24/95	17:21	bg	0.4 @ICP-F0
1307	6	S95T000778		V-F-01	<	268.45	5369	5/24/95	17:21	bg	0.05 @ICP-F0
1307	6	S95T000778		ZN-F-01		153.9774	5369	5/24/95	17:21	bg	0.01 @ICP-F0

1307	6	S95T000778		ZR-F-01	< 53.89		5369	5/24/95	17:21	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	AG-F-01	<53.8900	<51.2500	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	AL-F-01	464.8473	680.5663	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	AS-F-01	<268.4500	<256.2500	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	B-F-01	<268.4500	<256.2500	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	BA-F-01	<268.4500	<256.2500	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	BE-F-01	<26.8450	<25.6250	5125	5/24/95	17:25	bg	0.005	@ICP-F0
1307	7	S95T000778	DUP	BI-F-01	<536.9000	<512.5000	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	CA-F-01	1166.7399	1053.4443	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	CD-F-01	<53.6900	<51.2500	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	CE-F-01	<536.9000	<512.5000	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	CO-F-01	<107.3800	<102.5000	5125	5/24/95	17:25	bg	0.02	@ICP-F0
1307	7	S95T000778	DUP	CR-F-01	125.6438	128.0425	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	CU-F-01	<53.6900	<51.2500	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	FE-F-01	13006.8018	13423.4453	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	K-F-01	7316592	5669387	5125	5/24/95	17:25	bg	0.3	@ICP-F0
1307	7	S95T000778	DUP	LA-F-01	<268.4500	<256.2500	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	LI-F-01	<53.6900	<51.2500	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	MG-F-01	<536.9000	<512.5000	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	MN-F-01	83.2294	80.0144	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	MO-F-01	<268.4500	<256.2500	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	NA-F-01	102122.015	103890.257	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	ND-F-01	<536.9000	<512.5000	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	NI-F-01	6570.3101	5245.856	5125	5/24/95	17:25	bg	0.02	@ICP-F0
1307	7	S95T000778	DUP	P-F-01	17214.6738	17391.0078	5125	5/24/95	17:25	bg	0.2	@ICP-F0
1307	7	S95T000778	DUP	PB-F-01	843.4915	820.3553	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	S-F-01	6905.8862	7014.7607	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	SB-F-01	<1073.8000	<1025.0000	5125	5/24/95	17:25	bg	0.2	@ICP-F0
1307	7	S95T000778	DUP	SE-F-01	<536.9000	<512.5000	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	SI-F-01	568.1861	527.4085	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	SM-F-01	<536.9000	<512.5000	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	SR-F-01	395.5617	409.4661	5125	5/24/95	17:25	bg	0.1	@ICP-F0
1307	7	S95T000778	DUP	TI-F-01	<53.6900	<51.2500	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	TL-F-01	<1073.8000	<1025.0000	5125	5/24/95	17:25	bg	0.2	@ICP-F0
1307	7	S95T000778	DUP	U-F-01	13905.082	14438.7744	5125	5/24/95	17:25	bg	0.4	@ICP-F0
1307	7	S95T000778	DUP	V-F-01	<268.4500	<256.2500	5125	5/24/95	17:25	bg	0.05	@ICP-F0
1307	7	S95T000778	DUP	ZN-F-01	153.9774	100.9452	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	7	S95T000778	DUP	ZR-F-01	<53.6900	<51.2500	5125	5/24/95	17:25	bg	0.01	@ICP-F0
1307	8	S95T000778_A		AG-F-01	5369	3571.7427	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		AL-F-01	5369	5069.67857	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		AS-F-01	5369	5649.6499	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		B-F-01	5369	5050.3618	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		BA-F-01	5369	4839.5249	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		BE-F-01	5369	5327.7041	5369	5/24/95	17:30	bg	0.005	@ICP-F0
1307	8	S95T000778_A		BI-F-01	5369 <	536.9	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		CA-F-01	5369	5581.765	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		CD-F-01	5369	5512.66826	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		CE-F-01	5369	5067.1499	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		CO-F-01	5369	5406.394	5369	5/24/95	17:30	bg	0.02	@ICP-F0
1307	8	S95T000778_A		CR-F-01	5369	5463.137	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		CU-F-01	5369	5026.7143	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		FE-F-01	5369	5751.3545	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		K-F-01	0	7807841.5	5369	5/24/95	17:30	bg	0.3	@ICP-F0
1307	8	S95T000778_A		LA-F-01	5369	5029.1224	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		LI-F-01	5369	4745.3667	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		MG-F-01	5369	5218.0786	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		MN-F-01	5369	5177.4156	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		MO-F-01	5369	5503.2139	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		NA-F-01	0	110935.171	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		ND-F-01	5369	5103.6411	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		NI-F-01	5369	5719.5756	5369	5/24/95	17:30	bg	0.02	@ICP-F0
1307	8	S95T000778_A		P-F-01	5369	6355.623	5369	5/24/95	17:30	bg	0.2	@ICP-F0
1307	8	S95T000778_A		PB-F-01	5369	5498.8645	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		S-F-01	5369	5572.3687	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		SB-F-01	5369	5201.8387	5369	5/24/95	17:30	bg	0.2	@ICP-F0
1307	8	S95T000778_A		SE-F-01	5369	4008.1992	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		SI-F-01	5369	5274.4888	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		SM-F-01	5369	5123.9785	5369	5/24/95	17:30	bg	0.1	@ICP-F0
1307	8	S95T000778_A		SR-F-01	5369	4940.8586	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		TH-F-01	5369	5107.8745	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000779_A		TL-F-01	5369	5264.2192	5369	5/24/95	17:30	bg	0.2	@ICP-F0
1307	8	S95T000778_A		U-F-01	10738	10054.918	5369	5/24/95	17:30	bg	0.4	@ICP-F0
1307	8	S95T000778_A		V-F-01	5369	5200.8828	5369	5/24/95	17:30	bg	0.05	@ICP-F0
1307	8	S95T000778_A		ZN-F-01	5369	5486.2174	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	8	S95T000778_A		ZR-F-01	5369	5192.5893	5369	5/24/95	17:30	bg	0.01	@ICP-F0
1307	9		CCV	AG		4.9286	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	AL		4.912	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	AS		5.1178	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	B		4.9596	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	BA		4.8365	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	BE		5.084	1	5/24/95	17:53	bg	0.005	@ICP-QC
1307	9		CCV	BI		4.971	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	CA		5.1193	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	CD		5.1118	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	CE		4.9399	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	CO		5.0878	1	5/24/95	17:53	bg	0.02	@ICP-QC
1307	9		CCV	CR		5.0906	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	CU		4.9277	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	EU		0.0129	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	FE		5.0562	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	K		4.9369	1	5/24/95	17:53	bg	0.3	@ICP-QC
1307	9		CCV	LA		4.9269	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	LI		4.8206	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	MG		4.8843	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	MN		4.9678	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	MO		5.06	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	NA		4.8015	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	ND		5.046	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	NI		5.0588	1	5/24/95	17:53	bg	0.02	@ICP-QC
1307	9		CCV	P		5.0532	1	5/24/95	17:53	bg	0.2	@ICP-QC
1307	9		CCV	PB		5.1184	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	S		5.0309	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	SB		4.8055	1	5/24/95	17:53	bg	0.2	@ICP-QC
1307	9		CCV	SE		5.0658	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	SI		4.7204	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	SM		4.9268	1	5/24/95	17:53	bg	0.1	@ICP-QC
1307	9		CCV	SR		4.823	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	TH		-0.0282	1	5/24/95	17:53	bg	0	@ICP-QC
1307	9		CCV	TI		4.821	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	TL		4.9032	1	5/24/95	17:53	bg	0.2	@ICP-QC
1307	9		CCV	U		9.7388	1	5/24/95	17:53	bg	0.4	@ICP-QC
1307	9		CCV	V		4.8278	1	5/24/95	17:53	bg	0.05	@ICP-QC
1307	9		CCV	Y		0.0134	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	ZN		5.107	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	9		CCV	ZR		4.925	1	5/24/95	17:53	bg	0.01	@ICP-QC
1307	10		CCB	AG		0.0025	1	5/24/95	17:57	bg	0.01	@ICP-QC
1307	10		CCB	AL		0.007	1	5/24/95	17:57	bg	0.05	@ICP-QC
1307	10		CCB	AS		0.0076	1	5/24/95	17:57	bg	0.05	@ICP-QC

1307	10		CCB	B			0.0132		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	BA			0.0001		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	BE			0		1	5/24/95	17:57	bjg	0.005	@ICP-QC
1307	10		CCB	BI			-0.0143		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	CA			0.0036		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	CD			0.0014		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	CE			0.0049		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	CO			0.001		1	5/24/95	17:57	bjg	0.02	@ICP-QC
1307	10		CCB	CR			-0.0007		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	CU			-0.0013		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	EU			0.0003		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	FE			0.0007		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	K			0.0012		1	5/24/95	17:57	bjg	0.3	@ICP-QC
1307	10		CCB	LA			0.0004		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	LI			0.0004		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	MG			-0.0185		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	MN			0.0002		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	MO			-0.0006		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	NA			0.0048		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	ND			-0.0042		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	NI			-0.0067		1	5/24/95	17:57	bjg	0.02	@ICP-QC
1307	10		CCB	P			0.0174		1	5/24/95	17:57	bjg	0.2	@ICP-QC
1307	10		CCB	PB			0.0208		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	S			0.0013		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	SB			0.0207		1	5/24/95	17:57	bjg	0.2	@ICP-QC
1307	10		CCB	SE			0.0029		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	SI			0.0104		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	SM			0.007		1	5/24/95	17:57	bjg	0.1	@ICP-QC
1307	10		CCB	SR			-0.0004		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	TH			-0.0024		1	5/24/95	17:57	bjg	0	@ICP-QC
1307	10		CCB	TI			-0.0004		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	TL			-0.0305		1	5/24/95	17:57	bjg	0.2	@ICP-QC
1307	10		CCB	U			0.0333		1	5/24/95	17:57	bjg	0.4	@ICP-QC
1307	10		CCB	V			0.0006		1	5/24/95	17:57	bjg	0.05	@ICP-QC
1307	10		CCB	Y			0.0003		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	ZN			0.001		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	10		CCB	ZR			0.0018		1	5/24/95	17:57	bjg	0.01	@ICP-QC
1307	11	S9S7000781		AG-F-01	<		48.68		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		AL-F-01			7397.2622		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		AS-F-01	<		243.4		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		B-F-01	<		243.4		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		BA-F-01	<		243.4		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		BE-F-01	<		24.34		4868	5/24/95	18:04	bjg	0.005	@ICP-F0
1307	11	S9S7000781		BI-F-01	<		486.8		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		CA-F-01			4692.2891		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		CD-F-01	<		48.68		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		CE-F-01	<		486.8		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		CO-F-01	<		97.36		4868	5/24/95	18:04	bjg	0.02	@ICP-F0
1307	11	S9S7000781		CR-F-01			86.2204		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		CU-F-01	<		48.68		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		FE-F-01			22408.1406		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		K-F-01			5692389		4868	5/24/95	18:04	bjg	0.3	@ICP-F0
1307	11	S9S7000781		LA-F-01	<		243.4		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		LI-F-01	<		48.68		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		MG-F-01			1046.1956		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		MN-F-01			179.7733		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		MO-F-01	<		243.4		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		NA-F-01			100698.609		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		ND-F-01	<		486.8		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		NI-F-01			5353.3042		4868	5/24/95	18:04	bjg	0.02	@ICP-F0
1307	11	S9S7000781		P-F-01			15442.0898		4868	5/24/95	18:04	bjg	0.2	@ICP-F0
1307	11	S9S7000781		PB-F-01			499.836		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		S-F-01			5922.189		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		SB-F-01	<		973.6		4868	5/24/95	18:04	bjg	0.2	@ICP-F0
1307	11	S9S7000781		SE-F-01	<		486.8		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		SI-F-01			829.2523		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		SM-F-01	<		486.8		4868	5/24/95	18:04	bjg	0.1	@ICP-F0
1307	11	S9S7000781		SR-F-01			576.7109		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		TI-F-01			123.3384		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		TL-F-01	<		973.6		4868	5/24/95	18:04	bjg	0.2	@ICP-F0
1307	11	S9S7000781		U-F-01			6755.3022		4868	5/24/95	18:04	bjg	0.4	@ICP-F0
1307	11	S9S7000781		V-F-01	<		243.4		4868	5/24/95	18:04	bjg	0.05	@ICP-F0
1307	11	S9S7000781		ZN-F-01			143.9916		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	11	S9S7000781		ZR-F-01	<		48.68		4868	5/24/95	18:04	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	AG-F-01	<48.6800		<47.7900		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	AL-F-01	7397.2622		7358.8374		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	AS-F-01	<243.4000		<238.9500		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	B-F-01	<243.4000		<238.9500		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	BA-F-01	<243.4000		<238.9500		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	BE-F-01	<24.3400		<23.8950		4779	5/24/95	18:08	bjg	0.005	@ICP-F0
1307	12	S9S7000781	DUP	BI-F-01	<486.8000		<477.9000		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	CA-F-01	4696.2891		4921.5078		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	CD-F-01	<48.6800		<47.7900		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	CE-F-01	<486.8000		<477.9000		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	CO-F-01	<97.3600		<95.5800		4779	5/24/95	18:08	bjg	0.02	@ICP-F0
1307	12	S9S7000781	DUP	CR-F-01	86.2204		87.3822		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	CU-F-01	<48.6800		<47.7900		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	FE-F-01	22408.1406		23978.2949		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	K-F-01	5692389		5314280.5		4779	5/24/95	18:08	bjg	0.3	@ICP-F0
1307	12	S9S7000781	DUP	LA-F-01	<243.4000		<238.9500		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	LI-F-01	<48.6800		<47.7900		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	MG-F-01	1046.1956		1044.9928		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	MN-F-01	179.7733		191.5955		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	MO-F-01	<243.4000		<238.9500		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	NA-F-01	100698.609		103843.554		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	ND-F-01	<486.8000		<477.9000		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	NI-F-01	5353.3042		5816.1855		4779	5/24/95	18:08	bjg	0.02	@ICP-F0
1307	12	S9S7000781	DUP	P-F-01	15442.0898		15669.4531		4779	5/24/95	18:08	bjg	0.2	@ICP-F0
1307	12	S9S7000781	DUP	PB-F-01	499.836		564.08		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	S-F-01	5922.189		6028.6792		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	SB-F-01	<973.6000		<955.8000		4779	5/24/95	18:08	bjg	0.2	@ICP-F0
1307	12	S9S7000781	DUP	SE-F-01	<486.8000		<477.9000		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	SI-F-01	829.2523		879.6088		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	SM-F-01	<486.8000		<477.9000		4779	5/24/95	18:08	bjg	0.1	@ICP-F0
1307	12	S9S7000781	DUP	SR-F-01	576.7109		612.1219		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	TI-F-01	123.3384		126.083		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	TL-F-01	<973.6000		<955.8000		4779	5/24/95	18:08	bjg	0.2	@ICP-F0
1307	12	S9S7000781	DUP	U-F-01	6755.3022		5934.8455		4779	5/24/95	18:08	bjg	0.4	@ICP-F0
1307	12	S9S7000781	DUP	V-F-01	<243.4000		<238.9500		4779	5/24/95	18:08	bjg	0.05	@ICP-F0
1307	12	S9S7000781	DUP	ZN-F-01	143.9916		125.0246		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	12	S9S7000781	DUP	ZR-F-01	<48.6800		<47.7900		4779	5/24/95	18:08	bjg	0.01	@ICP-F0
1307	13	S9S7000781_A		AG-F-01		4868	2925.5596		4868	5/24/95	18:12	bjg	0.01	@ICP-F0
1307	13	S9S7000781_A		AL-F-01		4868	4653.5181		4868	5/24/95	18:12	bjg	0.05	@ICP-F0
1307	13	S9S7000781_A		AS-F-01		4868	4964.2803		4868	5/24/95	18:12	bjg	0.05	@ICP-F0
1307	13	S9S7000781_A		B-F-01		4868	4546.0762		4868	5/24/95	18:12	bjg	0.05	@ICP-F0
1307	13	S9S7000781_A		BA-F-01		4868	4424.3389		4868	5/24/95	18:12	bjg	0.05	@ICP-F0
1307	13	S9S7000781_A		BE-F-01		4868	4554.9067		4868	5/24/95	18:12	bjg	0.005	@ICP-F0
1307	13	S9S7000781_A		BI-F-01		4868	735.6933		4868	5/24/95	18:12	bjg	0.1	@ICP-F0

1307	13	S95T000781_A		CA-F-01	4868	4880.825	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		CO-F-01	4868	4715.9907	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		CE-F-01	4868	4836.1758	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		CO-F-01	4868	4682.9683	4868	5/24/95	18:12		0.02 @ICP-F0
1307	13	S95T000781_A		CR-F-01	4868	4804.1978	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		CU-F-01	4868	4556.5117	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		FE-F-01	4868	5104.2403	4868	5/24/95	18:12		0.05 @ICP-F0
1307	13	S95T000781_A		K-F-01	0	5755162.5	4868	5/24/95	18:12		0.3 @ICP-F0
1307	13	S95T000781_A		LA-F-01	4868	4533.5737	4868	5/24/95	18:12		0.05 @ICP-F0
1307	13	S95T000781_A		LI-F-01	4868	4453.9824	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		MG-F-01	4868	4497.582	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		MN-F-01	4868	4650.0547	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		MO-F-01	4868	4759.9194	4868	5/24/95	18:12		0.05 @ICP-F0
1307	13	S95T000781_A		NA-F-01	4868	5384.2265	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		ND-F-01	4868	4671.7569	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		NI-F-01	4868	4818.0405	4868	5/24/95	18:12		0.02 @ICP-F0
1307	13	S95T000781_A		P-F-01	4868	5020.9551	4868	5/24/95	18:12		0.2 @ICP-F0
1307	13	S95T000781_A		PB-F-01	4868	4758.0925	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		S-F-01	4868	4886.8667	4868	5/24/95	18:12		0.05 @ICP-F0
1307	13	S95T000781_A		SB-F-01	4868	4598.2651	4868	5/24/95	18:12		0.2 @ICP-F0
1307	13	S95T000781_A		SE-F-01	4868	3580.6265	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		SI-F-01	4868	4599.8161	4868	5/24/95	18:12		0.05 @ICP-F0
1307	13	S95T000781_A		SM-F-01	4868	4538.1777	4868	5/24/95	18:12		0.1 @ICP-F0
1307	13	S95T000781_A		SR-F-01	4868	5001.2085	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		TI-F-01	4868	4466.73288	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		TL-F-01	4868	4527.4986	4868	5/24/95	18:12		0.2 @ICP-F0
1307	13	S95T000781_A		U-F-01	9736	9086.5308	4868	5/24/95	18:12		0.4 @ICP-F0
1307	13	S95T000781_A		V-F-01	4868	4506.0088	4868	5/24/95	18:12		0.05 @ICP-F0
1307	13	S95T000781_A		ZN-F-01	4868	4738.8817	4868	5/24/95	18:12		0.01 @ICP-F0
1307	13	S95T000781_A		ZR-F-01	4868	4544.8198	4868	5/24/95	18:12		0.01 @ICP-F0
1307	14		ICSA	AG		0.0054	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	AL		233.3999	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	AS		-0.0606	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	B		0.0084	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	BA		0.0034	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	BE		0	1	5/24/95	18:15		0.005 @ICP-QC
1307	14		ICSA	BI		0.0364	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	CA		237.0745	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	CD		0.0012	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	CE		0.0294	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	CO		0.002	1	5/24/95	18:15		0.02 @ICP-QC
1307	14		ICSA	CR		-0.0046	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	CU		-0.0082	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	EU		0.0525	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	FE		89.09	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	K		0.3013	1	5/24/95	18:15		0.3 @ICP-QC
1307	14		ICSA	LA		-0.0003	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	LI		0.0021	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	MG		242.2855	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	MN		-0.007	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	MO		-0.0126	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	NA		185.4966	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	ND		0.0214	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	NI		-0.0246	1	5/24/95	18:15		0.02 @ICP-QC
1307	14		ICSA	P		0.0785	1	5/24/95	18:15		0.2 @ICP-QC
1307	14		ICSA	PB		0.0692	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	S		0.0454	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	SB		0.0166	1	5/24/95	18:15		0.2 @ICP-QC
1307	14		ICSA	SE		0.0728	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	SI		0.0299	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	SM		-0.0035	1	5/24/95	18:15		0.1 @ICP-QC
1307	14		ICSA	SR		-0.003	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	TH		0.008	1	5/24/95	18:15		0 @ICP-QC
1307	14		ICSA	TI		0.0014	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	TL		0.0188	1	5/24/95	18:15		0.2 @ICP-QC
1307	14		ICSA	U		0.2277	1	5/24/95	18:15		0.4 @ICP-QC
1307	14		ICSA	V		-0.002	1	5/24/95	18:15		0.05 @ICP-QC
1307	14		ICSA	Y		0.0171	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	ZN		-0.0232	1	5/24/95	18:15		0.01 @ICP-QC
1307	14		ICSA	ZR		-0.0023	1	5/24/95	18:15		0.01 @ICP-QC
1307	15		ICSAB	AG		0.9184	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	AL		234.3976	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	AS		-0.077	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	B		0.0091	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	BA		0.4464	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	BE		0.4566	1	5/24/95	18:19		0.005 @ICP-QC
1307	15		ICSAB	BI		0.0378	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	CA		233.4492	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	CD		0.8967	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	CE		0.0108	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	CO		0.4473	1	5/24/95	18:19		0.02 @ICP-QC
1307	15		ICSAB	CR		0.4447	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	CU		0.4612	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	EU		0.0623	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	FE		88.2354	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	K		0.093	1	5/24/95	18:19		0.3 @ICP-QC
1307	15		ICSAB	LA		-0.0036	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	LI		0.9657	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	MG		241.4832	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	MN		0.4248	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	MO		-0.0146	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	NA		187.0957	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	ND		0.0204	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	NI		0.8692	1	5/24/95	18:19		0.02 @ICP-QC
1307	15		ICSAB	P		0.0729	1	5/24/95	18:19		0.2 @ICP-QC
1307	15		ICSAB	PB		0.9316	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	S		0.0227	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	SB		0.0148	1	5/24/95	18:19		0.2 @ICP-QC
1307	15		ICSAB	SE		0.0517	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	SI		0.0297	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	SM		-0.0083	1	5/24/95	18:19		0.1 @ICP-QC
1307	15		ICSAB	SR		-0.0028	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	TH		-0.0145	1	5/24/95	18:19		0 @ICP-QC
1307	15		ICSAB	TI		0.0014	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	TL		-0.018	1	5/24/95	18:19		0.2 @ICP-QC
1307	15		ICSAB	U		0.2265	1	5/24/95	18:19		0.4 @ICP-QC
1307	15		ICSAB	V		0.4457	1	5/24/95	18:19		0.05 @ICP-QC
1307	15		ICSAB	Y		0.0184	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	ZN		0.9026	1	5/24/95	18:19		0.01 @ICP-QC
1307	15		ICSAB	ZR		-0.0014	1	5/24/95	18:19		0.01 @ICP-QC
1307	16		CCV	AG		4.8579	1	5/24/95	18:24		0.01 @ICP-QC
1307	16		CCV	AL		4.9402	1	5/24/95	18:24		0.05 @ICP-QC
1307	16		CCV	AS		5.0266	1	5/24/95	18:24		0.05 @ICP-QC
1307	16		CCV	B		4.9223	1	5/24/95	18:24		0.05 @ICP-QC
1307	16		CCV	BA		4.8877	1	5/24/95	18:24		0.05 @ICP-QC
1307	16		CCV	BE		5.0718	1	5/24/95	18:24		0.005 @ICP-QC
1307	16		CCV	BI		4.9229	1	5/24/95	18:24		0.1 @ICP-QC
1307	16		CCV	CA		4.9836	1	5/24/95	18:24		0.1 @ICP-QC

1307	16	CCV	CD	4.9905	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	CE	4.9828	1	5/24/95	18:24	bg	0.1 @ICP-QC
1307	16	CCV	CO	4.9806	1	5/24/95	18:24	bg	0.02 @ICP-QC
1307	16	CCV	CR	5.0014	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	CU	4.9939	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	EU	0.0112	1	5/24/95	18:24	bg	0.06 @ICP-QC
1307	16	CCV	FE	4.9824	1	5/24/95	18:24	bg	0.05 @ICP-QC
1307	16	CCV	K	5.1297	1	5/24/95	18:24	bg	0.3 @ICP-QC
1307	16	CCV	LA	4.9833	1	5/24/95	18:24	bg	0.05 @ICP-QC
1307	16	CCV	LI	5.0386	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	MG	4.8835	1	5/24/95	18:24	bg	0.1 @ICP-QC
1307	16	CCV	MN	4.8743	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	MO	4.9835	1	5/24/95	18:24	bg	0.05 @ICP-QC
1307	16	CCV	NA	4.9451	1	5/24/95	18:24	bg	0.1 @ICP-QC
1307	16	CCV	ND	5.1285	1	5/24/95	18:24	bg	0.1 @ICP-QC
1307	16	CCV	NI	5.0022	1	5/24/95	18:24	bg	0.02 @ICP-QC
1307	16	CCV	P	4.9011	1	5/24/95	18:24	bg	0.2 @ICP-QC
1307	16	CCV	PB	4.9868	1	5/24/95	18:24	bg	0.1 @ICP-QC
1307	16	CCV	S	4.9736	1	5/24/95	18:24	bg	0.05 @ICP-QC
1307	16	CCV	SB	4.7379	1	5/24/95	18:24	bg	0.2 @ICP-QC
1307	16	CCV	SE	5.0245	1	5/24/95	18:24	bg	0.1 @ICP-QC
1307	16	CCV	SI	4.6578	1	5/24/95	18:24	bg	0.05 @ICP-QC
1307	16	CCV	SM	5.0066	1	5/24/95	18:24	bg	0.1 @ICP-QC
1307	16	CCV	SR	4.8882	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	TH	-0.0294	1	5/24/95	18:24	bg	0 @ICP-QC
1307	16	CCV	TI	4.8251	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	TL	4.7798	1	5/24/95	18:24	bg	0.2 @ICP-QC
1307	16	CCV	U	9.8734	1	5/24/95	18:24	bg	0.4 @ICP-QC
1307	16	CCV	V	4.7975	1	5/24/95	18:24	bg	0.05 @ICP-QC
1307	16	CCV	Y	0.0126	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	ZN	5.0007	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	16	CCV	ZR	4.8204	1	5/24/95	18:24	bg	0.01 @ICP-QC
1307	17	CCB	AG	0.0013	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	AL	0.0122	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	AS	0.0054	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	B	0.0117	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	BA	0	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	BE	0.0001	1	5/24/95	18:27	bg	0.005 @ICP-QC
1307	17	CCB	BI	-0.0154	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	CA	-0.0023	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	CD	0.0021	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	CE	0.0051	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	CO	0.0004	1	5/24/95	18:27	bg	0.02 @ICP-QC
1307	17	CCB	CR	-0.0005	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	CU	-0.0004	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	EU	-0.0006	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	FE	-0.0008	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	K	-0.06	1	5/24/95	18:27	bg	0.3 @ICP-QC
1307	17	CCB	LA	0.0001	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	LI	-0.0005	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	MG	-0.0022	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	MN	-0.0002	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	MO	0.0005	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	NA	-0.0054	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	ND	-0.0018	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	NI	-0.0046	1	5/24/95	18:27	bg	0.02 @ICP-QC
1307	17	CCB	P	-0.0029	1	5/24/95	18:27	bg	0.2 @ICP-QC
1307	17	CCB	PB	0.0001	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	S	0.0046	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	SB	0.0102	1	5/24/95	18:27	bg	0.2 @ICP-QC
1307	17	CCB	SE	-0.0078	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	SI	0.002	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	SM	-0.0027	1	5/24/95	18:27	bg	0.1 @ICP-QC
1307	17	CCB	SR	0	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	TH	0.0003	1	5/24/95	18:27	bg	0 @ICP-QC
1307	17	CCB	TI	0.0006	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	TL	-0.0072	1	5/24/95	18:27	bg	0.2 @ICP-QC
1307	17	CCB	U	-0.0221	1	5/24/95	18:27	bg	0.4 @ICP-QC
1307	17	CCB	V	-0.0011	1	5/24/95	18:27	bg	0.05 @ICP-QC
1307	17	CCB	Y	-0.0002	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	ZN	0.0019	1	5/24/95	18:27	bg	0.01 @ICP-QC
1307	17	CCB	ZR	-0.0006	1	5/24/95	18:27	bg	0.01 @ICP-QC

SP 05/30/95

FILE # 0850524F

LABCORE Data Entry Template for Worklist# 1308

Analyst: B. GOECKE **Instrument:** ~~ICP01~~ ICP02 # 5-2451 **Book#** 4184413

Method: LA-505-~~151~~161 Rev/Mod A-1

Worklist Comment: ICP BX-109 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T000787	0	F	@ICP-F01	SOLID	95000059	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
7	DUP	S95T000787	0	F	@ICP-F01	SOLID		
8	SPK	S95T000787	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T000790	0	F	@ICP-F01	SOLID	95000059	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01						
12	DUP	S95T000790	0	F	@ICP-F01	SOLID		

Data Entry Comments:
S95T000790 : Fe split % Rec = $\frac{23110 - 18150}{4975} \times 100 = 99.7\%$ SP 05/24/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1308

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T000790	0	F	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 1308

5-24-95

Analyst Signature Date

Analyst Signature Date

		D.F
PREP BLK TIA	1mL - 5mL	10
S95T000787	.5755g in 250mL - 1mL - 5mL	4344
SK	2mL - 5mL	21720
S95T000787_D	.5805g in 250mL - 1mL - 5mL	4310
S95T000787_A	.5755g in 250mL - 1mL - 2mL - 2mL	4344
S95T000790	.5025g in 250mL - 1mL - 5mL	4975
SK	2mL - 5mL	24876
S95T000790_D	.4975g in 250mL - 1mL - 5mL	5025
S95T000790_A	.5025g in 250mL - 1mL - 2mL - 2mL	4975

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950524F	ICP2	05/24/95	19:44	BJG	Q	CONC
2	ICB	950524F	ICP2	05/24/95	19:48	BJG	Q	CONC
3	ICSA	950524F	ICP2	05/24/95	19:52	BJG	Q	CONC
4	ICSAB	950524F	ICP2	05/24/95	19:55	BJG	Q	CONC
5	PREPBLKTJA	950524F	ICP2	05/24/95	20:01	BJG	S	CONC
6	S95T000787_L	950524F	ICP2	05/24/95	20:05	BJG	S	CONC
7	S95T000787	950524F	ICP2	05/24/95	20:11	BJG	S	CONC
8	S95T000787_D	950524F	ICP2	05/24/95	20:15	BJG	S	CONC
9	S95T000787_A	950524F	ICP2	05/24/95	20:19	BJG	S	CONC
10	CCV	950524F	ICP2	05/24/95	20:23	BJG	Q	CONC
11	CCB	950524F	ICP2	05/24/95	20:26	BJG	Q	CONC
12	S95T000790_L	950524F	ICP2	05/24/95	20:31	BJG	S	CONC
13	S95T000790	950524F	ICP2	05/24/95	20:35	BJG	S	CONC
14	S95T000790_D	950524F	ICP2	05/24/95	20:39	BJG	S	CONC
15	S95T000790_A	950524F	ICP2	05/24/95	20:43	BJG	S	CONC
16	ICSA	950524F	ICP2	05/24/95	20:46	BJG	Q	CONC
17	ICSAB	950524F	ICP2	05/24/95	20:50	BJG	Q	CONC
18	CCV_1	950524F	ICP2	05/24/95	20:55	BJG	Q	CONC
19	CCB_1	950524F	ICP2	05/24/95	20:58	BJG	Q	CONC

WHC-SD-WM-DP-154, REV. 0

5-24-95
BX-109 FUSION
S95T000787, 790
1mL-2mL-5X

BEST AVAILABLE COPY

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 539 TO 546.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.974	5.028	5.163	5.031	4.986	5.193
2	ICB	-.0036	.0013	.0015	.0074	-.0000	-.0001
3	ICSA	-.0059	240.7	-.0936	.0033	.0032	-.0003
4	ICSAB	.9469	241.8	-.0549	.0079	.4638	.4756
5	PREPBLKTJA	-.0630	.1530	.0485	-.0103	.0008	-.0055
6	S95T000787_L	-119.8	2036.	166.0	50.82	40.30	-10.41
7	S95T000787	-.5674	1827.	15.87	24.67	38.10	-1.161
8	S95T000787_D	-36.15	1719.	-27.08	-7.276	36.11	-.9484
9	S95T000787_A	3502.	5776.	4292.	4123.	3941.	4201.
10	CCV	5.039	5.082	5.227	5.057	5.025	5.273
11	CCB	.0052	.0075	.0006	.0059	.0002	.0003
12	S95T000790_L	-127.4	3680.	-302.6	44.58	46.32	-9.978
13	S95T000790	-10.65	3544.	-1.974	20.04	45.85	-1.475
14	S95T000790_D	-25.61	3618.	-45.32	62.98	45.00	-1.488
15	S95T000790_A	3927.	8166.	5103.	4659.	4483.	4817.
16	ICSA	.0041	240.8	-.0501	.0054	.0033	-.0003
17	ICSAB	.9583	241.6	-.0751	-.0000	.4593	.4779
18	CCV_1	5.100	5.126	5.326	5.142	5.069	5.365
19	CCB_1	-.0054	.0020	-.0019	.0020	-.0002	-.0003

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.018	5.083	5.122	5.089	5.111	5.120
2	ICB	-.0065	-.0029	.0008	.0026	.0000	.0016
3	ICSA	.0531	242.6	.0001	.0121	.0004	-.0049
4	ICSAB	.0655	243.5	.9321	.0186	.4638	.4650
5	PREPBLKTJA	-9.040	.5196	.0087	-.0522	-.0173	.0038
6	S95T000787_L	-3713.	3704.	5.343	305.5	-.9174	183.2
7	S95T000787	-3131.	4005.	20.82	184.0	3.060	146.7
8	S95T000787_D	-2788.	4115.	-1.938	-34.45	9.071	144.1
9	S95T000787_A	239.7	8258.	4257.	4072.	4220.	4408.
10	CCV	5.054	5.229	5.207	5.151	5.188	5.211
11	CCB	-.0099	-.0021	.0014	.0035	-.0012	.0011
12	S95T000790_L	-4603.	3774.	3.666	-63.00	-21.68	167.3
13	S95T000790	-4194.	4781.	.6307	56.61	8.476	133.6
14	S95T000790_D	-3380.	5062.	4.053	18.17	8.969	142.2
15	S95T000790_A	576.5	9837.	4902.	4674.	4876.	5060.
16	ICSA	.0680	252.3	-.0006	.0163	.0006	-.0059
17	ICSAB	.0589	250.9	.9553	.0141	.4752	.4722
18	CCV_1	5.188	5.339	5.313	5.205	5.273	5.304
19	CCB_1	.0059	.0052	.0017	-.0041	-.0001	.0010

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.074	.0100	5.119	4.831	5.070	5.045
2	ICB	-.0002	-.0006	-.0009	-.0347	.0006	-.0011
3	ICSA	-.0090	.0389	91.41	.0808	-.0031	.0015
4	ICSAB	.4787	.0425	91.65	.2168	-.0022	.9863
5	PREPBLKTJA	.0269	.0071	.0673	12620.	-.0028	-.0049
6	S95T000787_L	55.77	18.17	16690.	4990e3	54.03	4.229
7	S95T000787	37.96	11.98	16170.	4729e3	33.65	8.458

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	Cu	Eu	Fe	K	La	Li
8	S95T000787_D	29.65	12.21	16750.	4264e3	1.845	9.231
9	S95T000787_A	4068.	18.86	20260.	4775e3	4062.	3947.
10	CCV	5.125	.0104	5.195	4.958	5.128	5.098
11	CCB	.0007	-.0013	-.0014	.0933	.0002	-.0011
12	S95T000790_L	56.81	-16.67	18220.	6633e3	9.388	-31.48
13	S95T000790	40.70	10.47	18150.	6296e3	17.14	6.296
14	S95T000790_D	41.55	17.04	18790.	5195e3	8.724	12.23
15	S95T000790_A	4635.	25.24	23110.	6292e3	4625.	4461.
16	ICSA	-.0087	.0221	93.18	.0955	-.0025	.0031
17	ICSAB	.4717	.0287	92.97	.1674	-.0034	.9704
18	CCV_1	5.171	.0111	5.265	5.192	5.184	5.128
19	CCB_1	.0004	.0004	.0001	.0419	.0002	-.0005

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.010	5.002	5.115	4.975	5.208	5.081
2	ICB	.0080	-.0002	-.0014	-.0032	.0011	.0039
3	ICSA	249.4	-.0075	-.0142	191.3	.0187	-.0205
4	ICSAB	249.6	.4414	-.0149	191.6	.0187	.8844
5	PREPBLKTJA	.2935	.0648	.0067	4.705	-.0188	29.64
6	S95T000787_L	1249.	125.2	-11.14	114800.	117.8	8858.
7	S95T000787	900.6	129.1	7.191	109200.	45.08	8549.
8	S95T000787_D	799.4	123.5	21.87	112600.	30.38	3162.
9	S95T000787_A	4781.	4170.	4304.	114600.	4167.	12670.
10	CCV	5.073	5.070	5.194	5.019	5.265	5.186
11	CCB	.0086	-.0003	.0008	-.0075	.0020	.0015
12	S95T000790_L	1483.	138.0	-15.65	115200.	75.22	5070.
13	S95T000790	1102.	156.5	7.058	109900.	61.27	5214.
14	S95T000790_D	1105.	169.2	4.071	110800.	69.50	7619.
15	S95T000790_A	5592.	4812.	4950.	114100.	4776.	10120.
16	ICSA	251.0	-.0069	-.0101	187.9	.0193	-.0143
17	ICSAB	250.6	.4503	-.0156	189.5	.0155	.9204
18	CCV_1	5.117	5.148	5.286	5.063	5.323	5.294
19	CCB_1	.0142	-.0002	.0002	.0007	.0014	-.0018

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.089	5.099	5.057	4.796	5.106	4.795
2	ICB	-.0129	-.0043	-.0076	-.0068	-.0073	-.0023
3	ICSA	.0546	.0466	.0450	.0019	.0586	.0267
4	ICSAB	.0651	.9668	.0398	.0021	.0623	.0280
5	PREPBLKTJA	.1288	.1069	.1733	-.1253	-2.707	.5340
6	S95T000787_L	23630.	651.2	6726.	98.47	-1115.	47.23
7	S95T000787	23950.	440.5	6411.	24.36	-941.8	370.3
8	S95T000787_D	24410.	533.7	6534.	-92.05	-774.6	313.7
9	S95T000787_A	27860.	4667.	10570.	4033.	3238.	4512.
10	CCV	5.174	5.192	5.102	4.857	5.244	4.862
11	CCB	-.0092	-.0113	.0019	-.0121	.0001	-.0029
12	S95T000790_L	24840.	108.1	6190.	.8709	-1753.	-25.05
13	S95T000790	25590.	527.2	6074.	-4.512	-1274.	431.7
14	S95T000790_D	26630.	615.2	6197.	-42.78	-938.5	515.4
15	S95T000790_A	31570.	5484.	11190.	4595.	3604.	5223.

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	.0650	.0920	.0480	-.0048	.1076	.0339
17	ICSAB	.0580	1.032	.0358	-.0029	.0853	.0383
18	CCV_1	5.273	5.288	5.194	4.943	5.288	4.932
19	CCB_1	.0000	.0107	.0029	.0049	-.0104	.0010

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.075	4.970	-.0359	4.921	4.936	10.03
2	ICB	-.0071	.0003	.0011	.0004	.0252	-.0346
3	ICSA	-.0110	-.0029	-.0127	.0013	.0424	.1941
4	ICSAB	-.0163	-.0029	-.0095	.0019	.0292	.1639
5	PREPBLKTJA	.0356	-.0000	.2088	.0193	.3170	-3.618
6	S95T000787_L	96.15	402.0	264.0	93.00	748.8	8163.
7	S95T000787_	76.66	372.4	187.0	100.4	167.8	7725.
8	S95T000787_D	73.69	384.9	19.14	98.67	107.1	8136.
9	S95T000787_A	4074.	4354.	11.85	4149.	4133.	15730.
10	CCV	5.129	5.033	-.0318	5.001	4.995	10.14
11	CCB	-.0101	.0005	.0068	.0011	.0162	-.0614
12	S95T000790_L	-370.8	461.4	232.0	127.1	-339.7	3975.
13	S95T000790_	35.61	434.1	127.4	137.2	174.1	5258.
14	S95T000790_D	114.2	445.9	65.47	126.9	137.5	6200.
15	S95T000790_A	4661.	4955.	55.20	4738.	4794.	14460.
16	ICSA	.0061	-.0030	-.0046	.0013	.0571	.2048
17	ICSAB	-.0029	-.0030	.0002	.0013	.0401	.1842
18	CCV_1	5.183	5.085	-.0312	5.066	5.114	10.22
19	CCB_1	-.0006	.0000	.0032	.0004	.0256	-.0054

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.890	.0123	5.108	5.021
2	ICB	-.0012	-.0004	.0006	-.0010
3	ICSA	-.0029	.0167	-.0256	-.0045
4	ICSAB	.4618	.0165	.9374	-.0049
5	PREPBLKTJA	.0112	.0000	.0041	.0591
6	S95T000787_L	30.29	15.32	155.2	-27.77
7	S95T000787_	23.04	13.62	169.4	-6.841
8	S95T000787_D	23.01	13.18	89.75	12.40
9	S95T000787_A	4072.	22.48	4345.	4099.
10	CCV	4.975	.0127	5.196	5.090
11	CCB	-.0025	-.0006	.0009	-.0032
12	S95T000790_L	-50.80	-9.751	109.7	-89.48
13	S95T000790_	17.46	12.87	127.6	-4.330
14	S95T000790_D	31.88	17.33	107.6	7.405
15	S95T000790_A	4679.	27.30	5057.	4697.
16	ICSA	.0016	.0180	-.0255	-.0017
17	ICSAB	.4702	.0174	.9548	-.0022
18	CCV_1	5.049	.0130	5.270	5.154
19	CCB_1	.0004	.0000	.0011	-.0006

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

1308	1	ICV	AG	4.9744	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	AL	5.0276	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	AS	5.1634	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	B	5.0309	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	BA	4.9865	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	BE	5.1933	1	5/24/95	19:44	big	0.005	@ICP-QC
1308	1	ICV	BI	5.0179	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	CA	5.0829	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	CD	5.122	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	CE	5.0888	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	CO	5.1114	1	5/24/95	19:44	big	0.02	@ICP-QC
1308	1	ICV	CR	5.1198	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	CU	5.0735	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	EU	0.01	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	FE	5.1188	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	K	4.8311	1	5/24/95	19:44	big	0.3	@ICP-QC
1308	1	ICV	LA	5.07	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	LI	5.0452	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	MG	5.0102	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	MN	5.0024	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	MO	5.1154	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	NA	4.9748	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	ND	5.2082	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	NI	5.0806	1	5/24/95	19:44	big	0.02	@ICP-QC
1308	1	ICV	P	5.0887	1	5/24/95	19:44	big	0.2	@ICP-QC
1308	1	ICV	PB	5.0669	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	S	5.057	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	SB	4.7965	1	5/24/95	19:44	big	0.2	@ICP-QC
1308	1	ICV	SE	5.1058	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	SI	4.7945	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	SM	5.0747	1	5/24/95	19:44	big	0.1	@ICP-QC
1308	1	ICV	SR	4.9704	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	TH	-0.0359	1	5/24/95	19:44	big	0	@ICP-QC
1308	1	ICV	TI	4.921	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	TL	4.9364	1	5/24/95	19:44	big	0.2	@ICP-QC
1308	1	ICV	U	10.0295	1	5/24/95	19:44	big	0.4	@ICP-QC
1308	1	ICV	V	4.8896	1	5/24/95	19:44	big	0.05	@ICP-QC
1308	1	ICV	Y	0.0123	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	ZN	5.1084	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	1	ICV	ZR	5.0209	1	5/24/95	19:44	big	0.01	@ICP-QC
1308	2	ICB	AG	-0.0036	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	AL	0.0013	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	AS	0.0015	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	B	0.0074	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	BA	0	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	BE	-0.0001	1	5/24/95	19:48	big	0.005	@ICP-QC
1308	2	ICB	BI	-0.0065	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	CA	-0.0029	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	CD	0.0008	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	CE	0.0026	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	CO	0	1	5/24/95	19:48	big	0.02	@ICP-QC
1308	2	ICB	CR	0.0016	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	CU	-0.0002	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	EU	-0.0006	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	FE	-0.0009	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	K	-0.0347	1	5/24/95	19:48	big	0.3	@ICP-QC
1308	2	ICB	LA	0.0006	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	LI	-0.0011	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	MG	0.008	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	MN	-0.0002	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	MO	-0.0014	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	NA	-0.0032	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	ND	0.0011	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	NI	0.0039	1	5/24/95	19:48	big	0.02	@ICP-QC
1308	2	ICB	P	-0.0129	1	5/24/95	19:48	big	0.2	@ICP-QC
1308	2	ICB	PB	-0.0043	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	S	-0.0076	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	SB	-0.0058	1	5/24/95	19:48	big	0.2	@ICP-QC
1308	2	ICB	SE	-0.0073	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	SI	-0.0023	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	SM	-0.0071	1	5/24/95	19:48	big	0.1	@ICP-QC
1308	2	ICB	SR	0.0003	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	TH	0.0011	1	5/24/95	19:48	big	0	@ICP-QC
1308	2	ICB	TI	0.0004	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	TL	0.0252	1	5/24/95	19:48	big	0.2	@ICP-QC
1308	2	ICB	U	-0.0346	1	5/24/95	19:48	big	0.4	@ICP-QC
1308	2	ICB	V	-0.0012	1	5/24/95	19:48	big	0.05	@ICP-QC
1308	2	ICB	Y	-0.0004	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	ZN	0.0006	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	2	ICB	ZR	-0.001	1	5/24/95	19:48	big	0.01	@ICP-QC
1308	3	ICSA	AG	-0.0059	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	AL	240.7409	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	AS	-0.0936	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	B	0.0033	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	BA	0.0032	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	BE	-0.0003	1	5/24/95	19:52	big	0.005	@ICP-QC
1308	3	ICSA	BI	0.0531	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	CA	242.7265	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	CD	0.0001	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	CE	0.0121	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	CO	0.0004	1	5/24/95	19:52	big	0.02	@ICP-QC
1308	3	ICSA	CR	-0.0049	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	CU	-0.009	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	EU	0.0389	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	FE	91.4075	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	K	0.0808	1	5/24/95	19:52	big	0.3	@ICP-QC
1308	3	ICSA	LA	-0.0031	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	LI	0.0015	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	MG	249.408	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	MN	-0.0075	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	MO	-0.0142	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	NA	191.2963	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	ND	0.0187	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	NI	-0.0205	1	5/24/95	19:52	big	0.02	@ICP-QC
1308	3	ICSA	P	0.0546	1	5/24/95	19:52	big	0.2	@ICP-QC
1308	3	ICSA	PB	0.0467	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	S	0.045	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	SB	0.0019	1	5/24/95	19:52	big	0.2	@ICP-QC
1308	3	ICSA	SE	0.0586	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	SI	0.0267	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	SM	-0.011	1	5/24/95	19:52	big	0.1	@ICP-QC
1308	3	ICSA	SR	-0.0029	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	TH	-0.0127	1	5/24/95	19:52	big	0	@ICP-QC
1308	3	ICSA	TI	0.0013	1	5/24/95	19:52	big	0.01	@ICP-QC
1308	3	ICSA	TL	0.0424	1	5/24/95	19:52	big	0.2	@ICP-QC
1308	3	ICSA	U	0.1941	1	5/24/95	19:52	big	0.4	@ICP-QC
1308	3	ICSA	V	-0.0029	1	5/24/95	19:52	big	0.05	@ICP-QC
1308	3	ICSA	Y	0.0167	1	5/24/95	19:52	big	0.01	@ICP-QC

5 05/26/95

1308	3		ICSA	ZN		-0.0256	1	5/24/95	19:52	blg	0.01 @ICP-QC
1308	3		ICSA	ZR		-0.0045	1	5/24/95	19:52	blg	0.01 @ICP-QC
1308	4		ICSAB	AG		0.9469	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	AL		241.7529	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	AS		-0.0649	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	B		0.0079	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	BA		0.4638	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	BE		0.4756	1	5/24/95	19:55	blg	0.005 @ICP-QC
1308	4		ICSAB	BI		0.0655	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	CA		243.4974	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	CD		0.9321	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	CE		0.0186	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	CO		0.4638	1	5/24/95	19:55	blg	0.02 @ICP-QC
1308	4		ICSAB	CR		0.465	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	CU		0.4787	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	EU		0.0425	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	FE		91.6487	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	K		0.2168	1	5/24/95	19:55	blg	0.3 @ICP-QC
1308	4		ICSAB	LA		-0.0022	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	LI		0.9863	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	MG		249.6405	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	MN		0.4414	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	MO		-0.0149	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	NA		191.557	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	ND		0.0187	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	NI		0.8844	1	5/24/95	19:55	blg	0.02 @ICP-QC
1308	4		ICSAB	P		0.0651	1	5/24/95	19:55	blg	0.2 @ICP-QC
1308	4		ICSAB	PB		0.9888	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	S		0.0398	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	SB		0.0021	1	5/24/95	19:55	blg	0.2 @ICP-QC
1308	4		ICSAB	SE		0.0623	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	SI		0.028	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	SM		-0.0183	1	5/24/95	19:55	blg	0.1 @ICP-QC
1308	4		ICSAB	SR		-0.0029	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	TH		-0.0095	1	5/24/95	19:55	blg	0 @ICP-QC
1308	4		ICSAB	TI		0.0019	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	TL		0.0292	1	5/24/95	19:55	blg	0.2 @ICP-QC
1308	4		ICSAB	U		0.1839	1	5/24/95	19:55	blg	0.4 @ICP-QC
1308	4		ICSAB	V		0.4618	1	5/24/95	19:55	blg	0.05 @ICP-QC
1308	4		ICSAB	Y		0.0165	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	ZN		0.9374	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	4		ICSAB	ZR		-0.0049	1	5/24/95	19:55	blg	0.01 @ICP-QC
1308	5		PREPBLKTJA	AG-F-01		-0.063	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	AL-F-01		0.153	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	AS-F-01		0.0485	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	B-F-01		-0.0103	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	BA-F-01		0.0008	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	BE-F-01		-0.0055	10	5/24/95	20:01	blg	0.005 @ICP-F0
1308	5		PREPBLKTJA	BI-F-01		-9.0401	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	CA-F-01		0.5196	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	CD-F-01		0.0087	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	CE-F-01		-0.0522	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	CO-F-01		-0.0173	10	5/24/95	20:01	blg	0.02 @ICP-F0
1308	5		PREPBLKTJA	CR-F-01		0.0038	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	CU-F-01		0.0269	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	EU-F-01		0.0071	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	FE-F-01		0.0673	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	K-F-01		12620.2725	10	5/24/95	20:01	blg	0.3 @ICP-F0
1308	5		PREPBLKTJA	LA-F-01		-0.0028	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	LI-F-01		-0.0049	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	MG-F-01		0.2935	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	MN-F-01		0.0648	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	MO-F-01		0.0067	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	NA-F-01		4.7054	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	ND-F-01		-0.0188	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	NI-F-01		29.644	10	5/24/95	20:01	blg	0.02 @ICP-F0
1308	5		PREPBLKTJA	P-F-01		0.1288	10	5/24/95	20:01	blg	0.2 @ICP-F0
1308	5		PREPBLKTJA	PB-F-01		0.1069	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	S-F-01		0.1733	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	SB-F-01		-0.1253	10	5/24/95	20:01	blg	0.2 @ICP-F0
1308	5		PREPBLKTJA	SE-F-01		-2.7075	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	SI-F-01		0.534	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	SM-F-01		0.0356	10	5/24/95	20:01	blg	0.1 @ICP-F0
1308	5		PREPBLKTJA	SR-F-01		0	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	TH-F-01		0.2088	10	5/24/95	20:01	blg	0 @ICP-F0
1308	5		PREPBLKTJA	TI-F-01		0.0193	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	TL-F-01		0.317	10	5/24/95	20:01	blg	0.2 @ICP-F0
1308	5		PREPBLKTJA	U-F-01		-3.6181	10	5/24/95	20:01	blg	0.4 @ICP-F0
1308	5		PREPBLKTJA	V-F-01		0.0112	10	5/24/95	20:01	blg	0.05 @ICP-F0
1308	5		PREPBLKTJA	Y-F-01		0	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	ZN-F-01		0.0041	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	5		PREPBLKTJA	ZR-F-01		0.0591	10	5/24/95	20:01	blg	0.01 @ICP-F0
1308	6	S95T000787		AG-F-01	<	43.44	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		AL-F-01		1826.5314	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		AS-F-01	<	217.2	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		B-F-01	<	217.2	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		BA-F-01	<	217.2	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		BE-F-01	<	21.72	4344	5/24/95	20:11	blg	0.005 @ICP-F0
1308	6	S95T000787		BI-F-01	<	434.4	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		CA-F-01		4005.241	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		CD-F-01	<	43.44	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		CE-F-01	<	434.4	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		CO-F-01	<	86.88	4344	5/24/95	20:11	blg	0.02 @ICP-F0
1308	6	S95T000787		CR-F-01		146.6645	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		CU-F-01	<	43.44	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		FE-F-01		16165.2461	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		K-F-01		4729064	4344	5/24/95	20:11	blg	0.3 @ICP-F0
1308	6	S95T000787		LA-F-01	<	217.2	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		LI-F-01	<	43.44	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		MG-F-01		900.5658	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		MN-F-01		129.068	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		MO-F-01	<	217.2	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		NA-F-01		109184.156	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		ND-F-01	<	434.4	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		NI-F-01		8549.3096	4344	5/24/95	20:11	blg	0.02 @ICP-F0
1308	6	S95T000787		P-F-01		23953.9336	4344	5/24/95	20:11	blg	0.2 @ICP-F0
1308	6	S95T000787		PB-F-01		440.4787	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		S-F-01		6410.7256	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		SB-F-01	<	868.8	4344	5/24/95	20:11	blg	0.2 @ICP-F0
1308	6	S95T000787		SE-F-01	<	434.4	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		SI-F-01		370.2523	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		SM-F-01	<	434.4	4344	5/24/95	20:11	blg	0.1 @ICP-F0
1308	6	S95T000787		SR-F-01		372.3629	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		TH-F-01		100.383	4344	5/24/95	20:11	blg	0.01 @ICP-F0
1308	6	S95T000787		TL-F-01		868.8	4344	5/24/95	20:11	blg	0.2 @ICP-F0
1308	6	S95T000787		U-F-01		7724.7466	4344	5/24/95	20:11	blg	0.4 @ICP-F0
1308	6	S95T000787		V-F-01		217.2	4344	5/24/95	20:11	blg	0.05 @ICP-F0
1308	6	S95T000787		ZN-F-01		169.3918	4344	5/24/95	20:11	blg	0.01 @ICP-F0

1308	6	S9S7000787		ZR-F-01	<	43.44	4344	5/24/95	20:11	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	AG-F-01	<43.4400	<43.1000	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	AL-F-01	1826.5314	1718.771	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	AS-F-01	<217.2000	<215.5000	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	B-F-01	<217.2000	<215.5000	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	BA-F-01	<217.2000	<215.5000	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	BE-F-01	<21.7200	<21.5500	4310	5/24/95	20:15	bjg	0.005 @ICP-F0
1308	7	S9S7000787	DUP	BI-F-01	<434.4000	<431.0000	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	CA-F-01	4005.241	4114.917	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	CD-F-01	<43.4400	<43.1000	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	CE-F-01	<434.4000	<431.0000	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	CO-F-01	<86.8800	<86.2000	4310	5/24/95	20:15	bjg	0.02 @ICP-F0
1308	7	S9S7000787	DUP	CR-F-01	146.6645	144.1461	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	CU-F-01	<43.4400	<43.1000	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	FE-F-01	16185.248	16754.1855	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	K-F-01	4729064	4263822.5	4310	5/24/95	20:15	bjg	0.3 @ICP-F0
1308	7	S9S7000787	DUP	LA-F-01	<217.2000	<215.5000	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	LI-F-01	<43.4400	<43.1000	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	MG-F-01	900.5658	799.4202	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	MN-F-01	129.068	123.5193	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	MO-F-01	<217.2000	<215.5000	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	NA-F-01	109184.15	112623.656	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	ND-F-01	<434.4000	<431.0000	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	NI-F-01	8549.3096	3181.5188	4310	5/24/95	20:15	bjg	0.02 @ICP-F0
1308	7	S9S7000787	DUP	P-F-01	23953.933	24406.6172	4310	5/24/95	20:15	bjg	0.2 @ICP-F0
1308	7	S9S7000787	DUP	PB-F-01	440.4787	533.6572	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	S-F-01	6410.7256	6533.7686	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	SB-F-01	<868.8000	<862.0000	4310	5/24/95	20:15	bjg	0.2 @ICP-F0
1308	7	S9S7000787	DUP	SE-F-01	<434.4000	<431.0000	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	SI-F-01	370.2523	313.7293	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	SM-F-01	<434.4000	<431.0000	4310	5/24/95	20:15	bjg	0.1 @ICP-F0
1308	7	S9S7000787	DUP	SR-F-01	372.3629	384.9384	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	TH-F-01	100.383	98.6726	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	TL-F-01	<868.8000	<862.0000	4310	5/24/95	20:15	bjg	0.2 @ICP-F0
1308	7	S9S7000787	DUP	U-F-01	7724.7466	8136.4348	4310	5/24/95	20:15	bjg	0.4 @ICP-F0
1308	7	S9S7000787	DUP	V-F-01	<217.2000	<215.5000	4310	5/24/95	20:15	bjg	0.05 @ICP-F0
1308	7	S9S7000787	DUP	ZN-F-01	169.3918	89.7547	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	7	S9S7000787	DUP	ZR-F-01	<43.4400	<43.1000	4310	5/24/95	20:15	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		AG-F-01	4344	3501.6943	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		AL-F-01	4344	3949.204	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		AS-F-01	4344	4292.2993	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		B-F-01	4344	4123.082	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		BA-F-01	4344	3941.0693	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		BE-F-01	4344	4201.1353	4344	5/24/95	20:19	bjg	0.005 @ICP-F0
1308	8	S9S7000787_A		BI-F-01	4344	938.7475	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		CA-F-01	4344	4252.8235	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		CD-F-01	4344	4258.7646	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		CE-F-01	4344	4071.8228	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		CO-F-01	4344	4219.8862	4344	5/24/95	20:19	bjg	0.02 @ICP-F0
1308	8	S9S7000787_A		CR-F-01	4344	4261.7764	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		CU-F-01	4344	4067.9878	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		FE-F-01	4344	4091.4277	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		K-F-01	0	4775337.5	4344	5/24/95	20:19	bjg	0.3 @ICP-F0
1308	8	S9S7000787_A		LA-F-01	4344	4062.3716	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		LI-F-01	4344	3947.3225	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		MG-F-01	4344	3880.5509	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		MN-F-01	4344	4041.327	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		MO-F-01	4344	4303.6875	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		NA-F-01	4344	5378.7734	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		ND-F-01	4344	4166.6533	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		NI-F-01	4344	4123.8672	4344	5/24/95	20:19	bjg	0.02 @ICP-F0
1308	8	S9S7000787_A		P-F-01	4344	3908.0449	4344	5/24/95	20:19	bjg	0.2 @ICP-F0
1308	8	S9S7000787_A		PB-F-01	4344	4226.3016	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		S-F-01	4344	4148.999	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		SB-F-01	4344	4032.7126	4344	5/24/95	20:19	bjg	0.2 @ICP-F0
1308	8	S9S7000787_A		SE-F-01	4344	3238.0945	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		SI-F-01	4344	4142.0431	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		SM-F-01	4344	4074.0823	4344	5/24/95	20:19	bjg	0.1 @ICP-F0
1308	8	S9S7000787_A		SR-F-01	4344	3981.9408	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		TH-F-01	4344	4148.6255	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		TL-F-01	4344	4133.4961	4344	5/24/95	20:19	bjg	0.2 @ICP-F0
1308	8	S9S7000787_A		U-F-01	8688	8007.3677	4344	5/24/95	20:19	bjg	0.4 @ICP-F0
1308	8	S9S7000787_A		V-F-01	4344	4071.5442	4344	5/24/95	20:19	bjg	0.05 @ICP-F0
1308	8	S9S7000787_A		ZN-F-01	4344	4175.7952	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	8	S9S7000787_A		ZR-F-01	4344	4099.1108	4344	5/24/95	20:19	bjg	0.01 @ICP-F0
1308	9		CCV	AG		5.0387	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	AL		5.0824	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	AS		5.2289	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	B		5.0571	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	BA		5.0246	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	BE		5.2733	1	5/24/95	20:23	bjg	0.005 @ICP-QC
1308	9		CCV	BI		5.0536	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	CA		5.2285	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	CD		5.207	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	CE		5.1507	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	CO		5.1881	1	5/24/95	20:23	bjg	0.02 @ICP-QC
1308	9		CCV	CR		5.2109	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	CU		5.1254	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	EU		0.0104	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	FE		5.1952	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	K		4.9584	1	5/24/95	20:23	bjg	0.3 @ICP-QC
1308	9		CCV	LA		5.1282	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	LI		5.0979	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	MG		5.0726	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	MN		5.0701	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	MO		5.1945	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	NA		5.0191	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	ND		5.2647	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	NI		5.1864	1	5/24/95	20:23	bjg	0.02 @ICP-QC
1308	9		CCV	P		5.174	1	5/24/95	20:23	bjg	0.2 @ICP-QC
1308	9		CCV	PB		5.1923	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	S		5.1024	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	SB		4.8573	1	5/24/95	20:23	bjg	0.2 @ICP-QC
1308	9		CCV	SE		5.2442	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	SI		4.8623	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	SM		5.1294	1	5/24/95	20:23	bjg	0.1 @ICP-QC
1308	9		CCV	SR		5.0327	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	TH		-0.0318	1	5/24/95	20:23	bjg	0 @ICP-QC
1308	9		CCV	TI		5.0013	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	TL		4.9949	1	5/24/95	20:23	bjg	0.2 @ICP-QC
1308	9		CCV	U		10.1427	1	5/24/95	20:23	bjg	0.4 @ICP-QC
1308	9		CCV	V		4.9753	1	5/24/95	20:23	bjg	0.05 @ICP-QC
1308	9		CCV	Y		0.0127	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	ZN		5.1957	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	9		CCV	ZR		5.0897	1	5/24/95	20:23	bjg	0.01 @ICP-QC
1308	10		CCB	AG		0.0052	1	5/24/95	20:26	bjg	0.01 @ICP-QC
1308	10		CCB	AL		0.0075	1	5/24/95	20:26	bjg	0.05 @ICP-QC
1308	10		CCB	AS		0.0006	1	5/24/95	20:26	bjg	0.05 @ICP-QC

1308	10		CCB	B			0.0059	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	BA			0.0002	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	BE			0.0003	1	5/24/95	20:26	big	0.005 @ICP-QC
1308	10		CCB	BI			-0.0099	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	CA			-0.0021	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	CD			0.0015	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	CE			0.0035	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	CO			-0.0012	1	5/24/95	20:26	big	0.02 @ICP-QC
1308	10		CCB	CR			0.0011	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	CU			0.0007	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	EU			-0.0013	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	FE			-0.0016	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	K			0.0933	1	5/24/95	20:26	big	0.3 @ICP-QC
1308	10		CCB	LA			0.0002	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	LI			-0.0011	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	MG			0.0088	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	MN			-0.0003	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	MO			0.0008	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	NA			-0.0075	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	ND			0.002	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	NI			0.0015	1	5/24/95	20:26	big	0.02 @ICP-QC
1308	10		CCB	P			-0.0092	1	5/24/95	20:26	big	0.2 @ICP-QC
1308	10		CCB	PB			-0.0113	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	S			0.0019	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	SB			-0.0121	1	5/24/95	20:26	big	0.2 @ICP-QC
1308	10		CCB	SE			0.0001	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	SI			-0.0029	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	SM			-0.0101	1	5/24/95	20:26	big	0.1 @ICP-QC
1308	10		CCB	SR			0.0005	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	TH			0.0068	1	5/24/95	20:26	big	0 @ICP-QC
1308	10		CCB	TI			0.0011	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	TL			0.0182	1	5/24/95	20:26	big	0.2 @ICP-QC
1308	10		CCB	U			-0.0814	1	5/24/95	20:26	big	0.4 @ICP-QC
1308	10		CCB	V			-0.0025	1	5/24/95	20:26	big	0.05 @ICP-QC
1308	10		CCB	Y			-0.0006	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	ZN			0.0009	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	10		CCB	ZR			-0.0032	1	5/24/95	20:26	big	0.01 @ICP-QC
1308	11	S95T000790		AG-F-01		<	49.75	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		AL-F-01			3544.4065	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		AS-F-01		<	248.75	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		B-F-01		<	248.75	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		BA-F-01		<	248.75	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		BE-F-01		<	24.875	4975	5/24/95	20:35	big	0.005 @ICP-F0
1308	11	S95T000790		BI-F-01		<	497.5	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		CA-F-01			4780.917	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		CD-F-01		<	49.75	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		CE-F-01		<	497.5	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		CO-F-01		<	99.5	4975	5/24/95	20:35	big	0.02 @ICP-F0
1308	11	S95T000790		CR-F-01			133.6083	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		CU-F-01		<	49.75	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		FE-F-01			18150.8164	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		K-F-01			6295722.6	4975	5/24/95	20:35	big	0.3 @ICP-F0
1308	11	S95T000790		LA-F-01		<	248.75	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		LI-F-01		<	49.75	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		MG-F-01			1101.7198	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		MN-F-01			156.4534	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		MO-F-01		<	248.75	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		NA-F-01			109924.832	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		ND-F-01		<	497.5	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		NI-F-01			5213.5908	4975	5/24/95	20:35	big	0.02 @ICP-F0
1308	11	S95T000790		P-F-01			25593.2402	4975	5/24/95	20:35	big	0.2 @ICP-F0
1308	11	S95T000790		PB-F-01			527.1539	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		S-F-01			6073.9238	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		SB-F-01		<	995	4975	5/24/95	20:35	big	0.2 @ICP-F0
1308	11	S95T000790		SE-F-01		<	497.5	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		SI-F-01			431.6873	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		SM-F-01		<	497.5	4975	5/24/95	20:35	big	0.1 @ICP-F0
1308	11	S95T000790		SR-F-01			434.0518	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		TI-F-01			137.2189	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		TL-F-01		<	995	4975	5/24/95	20:35	big	0.2 @ICP-F0
1308	11	S95T000790		U-F-01			5257.8509	4975	5/24/95	20:35	big	0.4 @ICP-F0
1308	11	S95T000790		V-F-01		<	248.75	4975	5/24/95	20:35	big	0.05 @ICP-F0
1308	11	S95T000790		ZN-F-01			127.6037	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	11	S95T000790		ZR-F-01		<	49.75	4975	5/24/95	20:35	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	AG-F-01	<49.7500		<50.2500	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	AL-F-01	3544.4065		3617.7317	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	AS-F-01	<248.7500		<251.2500	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	B-F-01	<248.7500		<251.2500	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	BA-F-01	<248.7500		<251.2500	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	BE-F-01	<24.8750		<25.1250	5025	5/24/95	20:39	big	0.005 @ICP-F0
1308	12	S95T000790	DUP	BI-F-01	<497.5000		<502.5000	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	CA-F-01	4780.917		5062.3354	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	CD-F-01	<49.7500		<50.2500	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	CE-F-01	<497.5000		<502.5000	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	CO-F-01	<99.5000		<100.5000	5025	5/24/95	20:39	big	0.02 @ICP-F0
1308	12	S95T000790	DUP	CR-F-01	133.6083		142.1834	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	CU-F-01	<49.7500		<50.2500	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	FE-F-01	18150.816		18792.791	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	K-F-01	6295722.5		5195036	5025	5/24/95	20:39	big	0.3 @ICP-F0
1308	12	S95T000790	DUP	LA-F-01	<248.7500		<251.2500	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	LI-F-01	<49.7500		<50.2500	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	MG-F-01	1101.7198		1104.7081	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	MN-F-01	156.4534		169.1632	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	MO-F-01	<248.7500		<251.2500	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	NA-F-01	109924.63		110832.695	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	ND-F-01	<497.5000		<502.5000	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	NI-F-01	5213.5908		7619.2197	5025	5/24/95	20:39	big	0.02 @ICP-F0
1308	12	S95T000790	DUP	P-F-01	25593.24		26832.373	5025	5/24/95	20:39	big	0.2 @ICP-F0
1308	12	S95T000790	DUP	PB-F-01	527.1539		615.1718	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	S-F-01	6073.9238		8196.7969	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	SB-F-01	<995.0000		<1005.0000	5025	5/24/95	20:39	big	0.2 @ICP-F0
1308	12	S95T000790	DUP	SE-F-01	<497.5000		<502.5000	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	SI-F-01	431.6873		515.3965	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	SM-F-01	<497.5000		<502.5000	5025	5/24/95	20:39	big	0.1 @ICP-F0
1308	12	S95T000790	DUP	SR-F-01	434.0518		445.8817	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	TI-F-01	137.2189		126.897	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	TL-F-01	<995.0000		<1005.0000	5025	5/24/95	20:39	big	0.2 @ICP-F0
1308	12	S95T000790	DUP	U-F-01	5257.8509		6199.9185	5025	5/24/95	20:39	big	0.4 @ICP-F0
1308	12	S95T000790	DUP	V-F-01	<248.7500		<251.2500	5025	5/24/95	20:39	big	0.05 @ICP-F0
1308	12	S95T000790	DUP	ZN-F-01	127.6037		107.6353	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	12	S95T000790	DUP	ZR-F-01	<49.7500		<50.2500	5025	5/24/95	20:39	big	0.01 @ICP-F0
1308	13	S95T000790_A		AG-F-01		4975	3926.6624	4975	5/24/95	20:43	big	0.01 @ICP-F0
1308	13	S95T000790_A		AL-F-01		4975	4621.7979	4975	5/24/95	20:43	big	0.05 @ICP-F0
1308	13	S95T000790_A		AS-F-01		4975	5102.7871	4975	5/24/95	20:43	big	0.05 @ICP-F0
1308	13	S95T000790_A		B-F-01		4975	4659.4883	4975	5/24/95	20:43	big	0.05 @ICP-F0
1308	13	S95T000790_A		BA-F-01		4975	4482.9414	4975	5/24/95	20:43	big	0.05 @ICP-F0
1308	13	S95T000790_A		BE-F-01		4975	4817.1992	4975	5/24/95	20:43	big	0.005 @ICP-F0
1308	13	S95T000790_A		BI-F-01		4975	576.5098	4975	5/24/95	20:43	big	0.1 @ICP-F0

1308	13	S95T000790_A		CA-F-01	4975	5056.1035	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		CD-F-01	4975	4902.0703	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		CE-F-01	4975	4874.0103	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		CO-F-01	4975	4875.9395	4975	5/24/95	20:43	bjg	0.02 @ICP-F0
1308	13	S95T000790_A		CR-F-01	4975	4925.921	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		CU-F-01	4975	4635.6442	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		FE-F-01	4975	49566.113	4975	5/24/95	20:43	bjg	0.05 @ICP-F0
1308	13	S95T000790_A		K-F-01	0	6292188	4975	5/24/95	20:43	bjg	0.3 @ICP-F0
1308	13	S95T000790_A		LA-F-01	4975	4625.2842	4975	5/24/95	20:43	bjg	0.05 @ICP-F0
1308	13	S95T000790_A		LI-F-01	4975	4481.1299	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		MG-F-01	4975	4490.0453	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		MN-F-01	4975	4555.8443	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		MO-F-01	4975	4950.3462	4975	5/24/95	20:43	bjg	0.05 @ICP-F0
1308	13	S95T000790_A		NA-F-01	4975	4140.75	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		ND-F-01	4975	4775.9375	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		NI-F-01	4975	4904.9384	4975	5/24/95	20:43	bjg	0.02 @ICP-F0
1308	13	S95T000790_A		P-F-01	4975	5973.3672	4975	5/24/95	20:43	bjg	0.2 @ICP-F0
1308	13	S95T000790_A		PB-F-01	4975	4956.7423	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		S-F-01	4975	5111.4922	4975	5/24/95	20:43	bjg	0.05 @ICP-F0
1308	13	S95T000790_A		SB-F-01	4975	4594.5254	4975	5/24/95	20:43	bjg	0.2 @ICP-F0
1308	13	S95T000790_A		SE-F-01	4975	3603.581	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		SI-F-01	4975	4791.1716	4975	5/24/95	20:43	bjg	0.05 @ICP-F0
1308	13	S95T000790_A		SM-F-01	4975	4661.4336	4975	5/24/95	20:43	bjg	0.1 @ICP-F0
1308	13	S95T000790_A		SR-F-01	4975	4520.4585	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		TH-F-01	4975	4601.2616	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		TL-F-01	4975	4783.7754	4975	5/24/95	20:43	bjg	0.2 @ICP-F0
1308	13	S95T000790_A		U-F-01	9950	9197.6	4975	5/24/95	20:43	bjg	0.4 @ICP-F0
1308	13	S95T000790_A		V-F-01	4975	4678.6379	4975	5/24/95	20:43	bjg	0.05 @ICP-F0
1308	13	S95T000790_A		ZN-F-01	4975	4928.9241	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	13	S95T000790_A		ZR-F-01	4975	4696.9375	4975	5/24/95	20:43	bjg	0.01 @ICP-F0
1308	14		ICSA	AG		0.0041	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	AL		240.8278	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	AS		-0.0501	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	B		0.0054	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	BA		0.0033	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	BE		-0.0003	1	5/24/95	20:46	bjg	0.005 @ICP-QC
1308	14		ICSA	BI		0.068	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	CA		252.3045	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	CD		-0.0006	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	CE		0.0163	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	CO		0.0006	1	5/24/95	20:46	bjg	0.02 @ICP-QC
1308	14		ICSA	CR		-0.0059	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	CU		-0.0087	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	EU		0.0221	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	FE		93.1832	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	K		0.0955	1	5/24/95	20:46	bjg	0.3 @ICP-QC
1308	14		ICSA	LA		-0.0025	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	LI		0.0031	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	MG		250.9861	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	MN		-0.0069	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	MO		-0.0101	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	NA		187.8977	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	ND		0.0193	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	NI		-0.0143	1	5/24/95	20:46	bjg	0.02 @ICP-QC
1308	14		ICSA	P		0.065	1	5/24/95	20:46	bjg	0.2 @ICP-QC
1308	14		ICSA	PB		0.092	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	S		0.048	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	SB		-0.0048	1	5/24/95	20:46	bjg	0.2 @ICP-QC
1308	14		ICSA	SE		0.1076	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	SI		0.0339	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	SM		0.0061	1	5/24/95	20:46	bjg	0.1 @ICP-QC
1308	14		ICSA	SR		-0.003	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	TH		-0.0047	1	5/24/95	20:46	bjg	0 @ICP-QC
1308	14		ICSA	TI		0.0013	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	TL		0.0571	1	5/24/95	20:46	bjg	0.2 @ICP-QC
1308	14		ICSA	U		0.2048	1	5/24/95	20:46	bjg	0.4 @ICP-QC
1308	14		ICSA	V		0.0018	1	5/24/95	20:46	bjg	0.05 @ICP-QC
1308	14		ICSA	Y		0.018	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	ZN		-0.0255	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	14		ICSA	ZR		-0.0017	1	5/24/95	20:46	bjg	0.01 @ICP-QC
1308	15		ICSAB	AG		0.9583	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	AL		241.5552	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	AS		-0.0751	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	B		0	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	BA		0.4593	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	BE		0.4779	1	5/24/95	20:50	bjg	0.005 @ICP-QC
1308	15		ICSAB	BI		0.0589	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	CA		250.8539	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	CD		0.9553	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	CE		0.0141	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	CO		0.4752	1	5/24/95	20:50	bjg	0.02 @ICP-QC
1308	15		ICSAB	CR		0.4722	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	CU		0.4717	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	EU		0.0287	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	FE		92.9739	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	K		0.1674	1	5/24/95	20:50	bjg	0.3 @ICP-QC
1308	15		ICSAB	LA		-0.0034	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	LI		0.9704	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	MG		250.5825	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	MN		0.4503	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	MO		-0.0156	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	NA		189.4963	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	ND		0.0155	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	NI		0.9204	1	5/24/95	20:50	bjg	0.02 @ICP-QC
1308	15		ICSAB	P		0.058	1	5/24/95	20:50	bjg	0.2 @ICP-QC
1308	15		ICSAB	PB		1.0322	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	S		0.0358	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	SB		-0.0029	1	5/24/95	20:50	bjg	0.2 @ICP-QC
1308	15		ICSAB	SE		0.0853	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	SI		0.0383	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	SM		-0.0029	1	5/24/95	20:50	bjg	0.1 @ICP-QC
1308	15		ICSAB	SR		-0.003	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	TH		0.0002	1	5/24/95	20:50	bjg	0 @ICP-QC
1308	15		ICSAB	TI		0.0013	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	TL		0.0401	1	5/24/95	20:50	bjg	0.2 @ICP-QC
1308	15		ICSAB	U		0.1842	1	5/24/95	20:50	bjg	0.4 @ICP-QC
1308	15		ICSAB	V		0.4702	1	5/24/95	20:50	bjg	0.05 @ICP-QC
1308	15		ICSAB	Y		0.0174	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	ZN		0.9548	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	15		ICSAB	ZR		-0.0022	1	5/24/95	20:50	bjg	0.01 @ICP-QC
1308	16		CCV	AG		5.1005	1	5/24/95	20:55	bjg	0.01 @ICP-QC
1308	16		CCV	AL		5.1262	1	5/24/95	20:55	bjg	0.05 @ICP-QC
1308	16		CCV	AS		5.3255	1	5/24/95	20:55	bjg	0.05 @ICP-QC
1308	16		CCV	B		5.1418	1	5/24/95	20:55	bjg	0.05 @ICP-QC
1308	16		CCV	BA		5.0689	1	5/24/95	20:55	bjg	0.05 @ICP-QC
1308	16		CCV	BE		5.3648	1	5/24/95	20:55	bjg	0.005 @ICP-QC
1308	16		CCV	BI		5.1877	1	5/24/95	20:55	bjg	0.1 @ICP-QC
1308	16		CCV	CA		5.339	1	5/24/95	20:55	bjg	0.1 @ICP-QC

1308	16	CCV	CD	5.3132	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	CE	5.205	1	5/24/95	20:55	big	0.1	@ICP-QC
1308	16	CCV	CO	5.2728	1	5/24/95	20:55	big	0.02	@ICP-QC
1308	16	CCV	CR	5.3042	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	CU	5.1711	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	EU	0.0111	1	5/24/95	20:55	big	0.05	@ICP-QC
1308	16	CCV	FE	5.2647	1	5/24/95	20:55	big	0.05	@ICP-QC
1308	16	CCV	K	5.1915	1	5/24/95	20:55	big	0.3	@ICP-QC
1308	16	CCV	LA	5.1838	1	5/24/95	20:55	big	0.05	@ICP-QC
1308	16	CCV	LI	5.1281	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	MG	5.1169	1	5/24/95	20:55	big	0.1	@ICP-QC
1308	16	CCV	MN	5.1483	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	MO	5.2856	1	5/24/95	20:55	big	0.05	@ICP-QC
1308	16	CCV	NA	5.0628	1	5/24/95	20:55	big	0.1	@ICP-QC
1308	16	CCV	ND	5.323	1	5/24/95	20:55	big	0.1	@ICP-QC
1308	16	CCV	NI	5.2943	1	5/24/95	20:55	big	0.02	@ICP-QC
1308	16	CCV	P	5.2727	1	5/24/95	20:55	big	0.2	@ICP-QC
1308	16	CCV	PB	5.2875	1	5/24/95	20:55	big	0.1	@ICP-QC
1308	16	CCV	S	5.1942	1	5/24/95	20:55	big	0.05	@ICP-QC
1308	16	CCV	SB	4.9427	1	5/24/95	20:55	big	0.2	@ICP-QC
1308	16	CCV	SE	5.2877	1	5/24/95	20:55	big	0.1	@ICP-QC
1308	16	CCV	SI	4.9324	1	5/24/95	20:55	big	0.05	@ICP-QC
1308	16	CCV	SM	5.1826	1	5/24/95	20:55	big	0.1	@ICP-QC
1308	16	CCV	SR	5.085	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	TH	-0.0312	1	5/24/95	20:55	big	0	@ICP-QC
1308	16	CCV	TI	5.0663	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	TL	5.1136	1	5/24/95	20:55	big	0.2	@ICP-QC
1308	16	CCV	U	10.2183	1	5/24/95	20:55	big	0.4	@ICP-QC
1308	16	CCV	V	5.0489	1	5/24/95	20:55	big	0.05	@ICP-QC
1308	16	CCV	Y	0.013	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	ZN	5.2696	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	16	CCV	ZR	5.154	1	5/24/95	20:55	big	0.01	@ICP-QC
1308	17	CCB	AG	-0.0054	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	AL	0.002	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	AS	-0.0019	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	B	0.002	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	BA	-0.0002	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	BE	-0.0003	1	5/24/95	20:58	big	0.005	@ICP-QC
1308	17	CCB	BI	0.0059	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	CA	0.0052	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	CD	0.0017	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	CE	-0.0041	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	CO	-0.0001	1	5/24/95	20:58	big	0.02	@ICP-QC
1308	17	CCB	CR	0.001	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	CU	0.0004	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	EU	0.0004	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	FE	0.0001	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	K	0.0419	1	5/24/95	20:58	big	0.3	@ICP-QC
1308	17	CCB	LA	0.0002	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	LI	-0.0005	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	MG	0.1142	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	MN	-0.0002	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	MO	0.0002	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	NA	0.0007	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	ND	0.0014	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	NI	-0.0018	1	5/24/95	20:58	big	0.02	@ICP-QC
1308	17	CCB	P	0	1	5/24/95	20:58	big	0.2	@ICP-QC
1308	17	CCB	PB	0.0107	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	S	0.0029	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	SB	0.0049	1	5/24/95	20:58	big	0.2	@ICP-QC
1308	17	CCB	SE	-0.0104	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	SI	0.001	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	SM	-0.0006	1	5/24/95	20:58	big	0.1	@ICP-QC
1308	17	CCB	SR	0	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	TH	0.0032	1	5/24/95	20:58	big	0	@ICP-QC
1308	17	CCB	TI	0.0004	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	TL	0.0256	1	5/24/95	20:58	big	0.2	@ICP-QC
1308	17	CCB	U	-0.0054	1	5/24/95	20:58	big	0.4	@ICP-QC
1308	17	CCB	V	0.0004	1	5/24/95	20:58	big	0.05	@ICP-QC
1308	17	CCB	Y	0	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	ZN	0.0011	1	5/24/95	20:58	big	0.01	@ICP-QC
1308	17	CCB	ZR	-0.0008	1	5/24/95	20:58	big	0.01	@ICP-QC

05/24/95

FILE # 05505246

LABCORE Data Entry Template for Worklist# 1309

Analyst: B. Gaecke **Instrument:** ~~ICP01~~ Icp02 4-5-95 **Book#** 41845-8

Method: LA-505-~~151~~-IC-5-95 Rev/Mod A-1

Worklist Comment: ICP BX-109 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T000837	0	F	@ICP-F01	SOLID	95000059	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
7	DUP	S95T000837	0	F	@ICP-F01	SOLID		
8	SPK	S95T000837	0	F	@ICP-F01	SOLID		
9	CCB				@ICP-QC	QC		
10	CCV				@ICP-QC	QC		
11	SAMPLE	S95T000840	0	F	@ICP-F01	SOLID	95000059	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
12	DUP	S95T000840	0	F	@ICP-F01	SOLID		

Data Entry Comments:

SP 05/26/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1309

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T000840	0	F	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 1309

5-24-95
Analyst Signature Date

Analyst Signature Date

		D.F.
PREPBLKTJA	1mL - 5mL	10
S95T000837	.5249 g in 25mL - 1mL - 5mL	4763
5X	2mL - 5mL	23814
S95T000837_D	.5248 g in 25mL - 1mL - 5mL	4764
S95T000837_A	.5249 g in 25mL - 1mL - 2mL - 2mL	4763
S95T000840	.4721 g in 25mL - 1mL - 5mL	5295
5X	2mL - 5mL	26477
S95T000840_D	.4734 g in 25mL - 1mL - 5mL	5281
S95T000840_A	.4721 g in 25mL - 1mL - 2mL - 2mL	5295

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Analysis Report Summary Wed 05-24-95 10:21:48 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950524G	ICP2	05/24/95	21:11	BJG	Q	CONC
2	ICB	950524G	ICP2	05/24/95	21:15	BJG	Q	CONC
3	ICSA	950524G	ICP2	05/24/95	21:18	BJG	Q	CONC
4	ICSAB	950524G	ICP2	05/24/95	21:22	BJG	Q	CONC
5	PREPBLKTJA	950524G	ICP2	05/24/95	21:25	BJG	S	CONC
6	S95T000837_L	950524G	ICP2	05/24/95	21:29	BJG	S	CONC
7	S95T000837	950524G	ICP2	05/24/95	21:33	BJG	S	CONC
8	S95T000837_D	950524G	ICP2	05/24/95	21:37	BJG	S	CONC
9	S95T000837_A	950524G	ICP2	05/24/95	21:40	BJG	S	CONC
10	CCV	950524G	ICP2	05/24/95	21:44	BJG	Q	CONC
11	CCB	950524G	ICP2	05/24/95	21:48	BJG	Q	CONC
12	S95T000840_L	950524G	ICP2	05/24/95	21:51	BJG	S	CONC
13	S95T000840	950524G	ICP2	05/24/95	21:55	BJG	S	CONC
14	S95T000840_D	950524G	ICP2	05/24/95	21:59	BJG	S	CONC
15	S95T000840_A	950524G	ICP2	05/24/95	22:03	BJG	S	CONC
16	ICSA	950524G	ICP2	05/24/95	22:06	BJG	Q	CONC
17	ICSAB	950524G	ICP2	05/24/95	22:10	BJG	Q	CONC
18	CCV_1	950524G	ICP2	05/24/95	22:13	BJG	Q	CONC
19	CCB_1	950524G	ICP2	05/24/95	22:17	BJG	Q	CONC

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

bjg 5-24-95
BX-109 Fusion
S95-T000837, 840
ICL-9AL-5X

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 551 TO 560.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.033	5.009	5.217	5.022	4.947	5.238
2	ICB	-.0053	.0034	.0111	.0025	-.0001	-.0002
3	ICSA	-.0053	241.6	-.0593	.0052	.0033	-.0001
4	ICSAB	.9545	240.4	-.0467	.0013	.4584	.4759
5	PREPBLKTJA	-.0480	-.0435	-.0294	-.0005	.0194	-.0040
6	S95T000837_L	-157.7	655.0	-75.14	95.46	52.85	-8.819
7	S95T000837_	-21.97	612.3	-20.44	47.63	47.82	-.3883
8	S95T000837_D	-7.228	598.4	-9.572	50.39	52.84	-.5462
9	S95T000837_A	3845.	4988.	4806.	4459.	4259.	4579.
10	CCV	5.098	5.070	5.248	5.069	4.996	5.270
11	CCB	-.0047	.0066	.0010	.0055	-.0001	-.0003
12	S95T000840_L	-161.3	811.5	55.86	182.8	53.44	-9.673
13	S95T000840_	-35.06	701.8	31.88	30.09	50.24	-1.745
14	S95T000840_D	-40.40	683.2	-110.0	63.91	49.07	-2.694
15	S95T000840_A	4302.	5690.	5328.	4968.	4746.	5147.
16	ICSA	-.0022	242.1	-.0411	.0075	.0034	-.0003
17	ICSAB	.9552	241.3	-.0554	-.0014	.4572	.4734
18	CCV_1	5.121	5.117	5.284	5.122	5.054	5.324
19	CCB_1	-.0050	.0081	.0121	.0089	-.0001	-.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.101	5.263	5.221	5.083	5.186	5.211
2	ICB	-.0108	.0123	.0011	.0062	-.0008	.0020
3	ICSA	.0677	249.3	-.0001	.0170	-.0001	-.0033
4	ICSAB	.0488	249.8	.9528	.0094	.4704	.4724
5	PREPBLKTJA	-8.360	.6742	.0119	-.0426	-.0002	.0130
6	S95T000837_L	-3744.	977.5	32.68	379.3	16.57	212.5
7	S95T000837_	-3550.	1526.	4.294	94.46	3.738	186.7
8	S95T000837_D	-4576.	1592.	5.329	34.58	-7.456	171.9
9	S95T000837_A	875.8	6190.	4674.	4439.	4621.	4845.
10	CCV	5.134	5.315	5.249	5.122	5.218	5.254
11	CCB	.0250	.0105	.0009	.0035	-.0010	.0019
12	S95T000840_L	-4608.	1212.	25.92	9.626	-32.68	150.2
13	S95T000840_	-4174.	2020.	-9.465	-51.94	4.806	130.8
14	S95T000840_D	-4063.	1931.	-12.47	-94.29	-52.07	93.67
15	S95T000840_A	829.5	7449.	5291.	4915.	5205.	5408.
16	ICSA	.0521	252.5	.0001	.0260	-.0010	-.0043
17	ICSAB	.0600	246.7	.9376	.0130	.4660	.4672
18	CCV_1	5.148	5.322	5.272	5.179	5.245	5.280
19	CCB_1	.0072	.0090	.0010	.0059	-.0005	.0017

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.038	.0107	5.187	4.984	5.056	4.935
2	ICB	.0004	.0008	.0024	.1511	.0019	.0001
3	ICSA	-.0085	.0286	92.70	.2204	-.0026	.0019
4	ICSAB	.4712	.0290	92.56	.1569	-.0034	.9644
5	PREPBLKTJA	.0189	.0221	.0805	11940.	-.0121	.0058
6	S95T000837_L	34.46	25.61	22840.	5892e3	60.15	16.23
7	S95T000837_	34.91	15.79	22280.	5505e3	17.57	23.65

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	Cu	Eu	Fe	K	La	Li
8	S95T000837_D	25.05	12.27	23010.	6931e3	14.64	20.41
9	S95T000837_A	4382.	17.52	26740.	5616e3	4400.	4237.
10	CCV	5.094	.0108	5.225	5.150	5.109	5.044
11	CCB	.0002	.0005	.0017	.2224	.0006	-.0002
12	S95T000840_L	23.94	-17.84	25130.	6660e3	13.39	-2.578
13	S95T000840	26.18	11.07	24410.	6267e3	-1.622	20.10
14	S95T000840_D	-5.145	6.813	23720.	6216e3	-4.722	16.45
15	S95T000840_A	4874.	25.10	29780.	6246e3	4904.	4658.
16	ICSA	-.0089	.0235	93.49	.0893	-.0014	.0026
17	ICSAB	.4721	.0346	91.88	-.0131	-.0027	.9822
18	CCV_1	5.157	.0113	5.236	5.207	5.170	5.164
19	CCB_1	.0004	.0005	.0007	.0881	.0009	-.0001

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.005	5.060	5.182	4.913	5.188	5.176
2	ICB	.0180	-.0001	.0012	.0046	.0038	.0008
3	ICSA	250.9	-.0073	-.0114	190.4	.0194	-.0099
4	ICSAB	249.2	.4472	-.0115	188.2	.0168	.9095
5	PREPBLKTJA	.3568	.0210	.0052	4.222	.0363	6.860
6	S95T000837_L	581.5	101.8	17.28	111000.	47.82	4605.
7	S95T000837	554.6	109.7	19.51	102900.	53.59	4490.
8	S95T000837_D	425.7	109.4	4.841	105100.	11.61	3529.
9	S95T000837_A	4807.	4526.	4705.	110100.	4510.	9078.
10	CCV	5.070	5.101	5.222	4.994	5.246	5.210
11	CCB	.0078	-.0001	-.0005	.0043	.0023	.0045
12	S95T000840_L	776.7	104.7	21.84	113900.	79.79	5123.
13	S95T000840	545.1	116.9	5.268	107900.	40.93	4870.
14	S95T000840_D	111.6	113.9	-19.70	108900.	-83.31	5424.
15	S95T000840_A	5237.	5102.	5278.	111400.	5014.	9669.
16	ICSA	252.1	-.0071	-.0145	189.4	.0177	-.0205
17	ICSAB	249.8	.4430	-.0134	190.8	.0172	.8989
18	CCV_1	5.117	5.130	5.256	5.092	5.318	5.244
19	CCB_1	.0169	-.0002	.0019	.0010	.0038	-.0017

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.275	5.213	5.135	4.852	5.179	4.851
2	ICB	-.0047	.0211	-.0014	.0012	-.0119	.0029
3	ICSA	.0609	.0661	.0341	.0001	.0874	.0283
4	ICSAB	.0683	1.023	.0426	.0013	.0776	.0355
5	PREPBLKTJA	.1309	.4434	.3261	-.0658	-2.266	.2011
6	S95T000837_L	19500.	1231.	6714.	-186.2	-1012.	551.1
7	S95T000837	20070.	959.4	6530.	18.30	-986.7	882.4
8	S95T000837_D	20760.	900.0	6487.	-16.78	-1265.	762.2
9	S95T000837_A	25300.	5456.	11110.	4415.	3531.	5391.
10	CCV	5.211	5.251	5.166	4.887	5.197	4.894
11	CCB	.0002	.0197	-.0036	-.0021	.0141	.0046
12	S95T000840_L	21740.	384.0	6740.	-230.9	-1465.	272.0
13	S95T000840	22250.	560.3	6407.	-31.50	-1164.	689.9
14	S95T000840_D	21400.	540.6	6451.	-71.53	-1200.	649.2
15	S95T000840_A	27520.	6018.	11580.	4956.	4079.	5810.

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	.0862	.0814	.0235	-.0083	.0674	.0323
17	ICSAB	.0827	1.009	.0191	-.0008	.0921	.0347
18	CCV_1	5.273	5.264	5.160	4.924	5.226	4.923
19	CCB_1	-.0044	.0190	.0061	-.0056	.0081	.0040

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.048	4.962	-.0429	4.945	5.052	9.975
2	ICB	.0081	.0006	.0034	.0011	.0276	.0217
3	ICSA	-.0059	-.0030	-.0094	.0011	.0370	.1811
4	ICSAB	-.0018	-.0029	-.0055	.0011	.0363	.1695
5	PREPBLKTJA	.1218	-.0000	.1446	.0258	.1790	-2.875
6	S95T000837_L	249.4	673.1	54.69	5.456	277.9	23220.
7	S95T000837	171.7	636.9	116.5	33.85	49.90	21230.
8	S95T000837_D	118.8	665.0	129.0	27.67	193.0	21750.
9	S95T000837_A	4432.	4948.	31.14	4432.	4506.	30090.
10	CCV	5.100	5.011	-.0354	4.997	5.039	10.09
11	CCB	.0050	.0005	.0014	.0006	.0333	.0132
12	S95T000840_L	-153.4	683.8	176.1	16.78	576.9	14080.
13	S95T000840	119.7	637.6	35.91	42.05	177.0	14340.
14	S95T000840_D	51.03	627.2	13.31	19.26	42.28	14010.
15	S95T000840_A	4940.	5430.	43.55	4967.	5189.	23930.
16	ICSA	.0016	-.0030	.0108	.0015	.0355	.1755
17	ICSAB	-.0027	-.0028	-.0135	.0011	.0498	.2083
18	CCV_1	5.167	5.071	-.0403	5.042	5.083	10.21
19	CCB_1	.0003	.0000	.0060	.0004	.0313	.0023

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.947	.0129	5.201	5.048
2	ICB	.0013	.0003	.0006	-.0003
3	ICSA	-.0013	.0172	-.0256	-.0019
4	ICSAB	.4685	.0172	.9491	-.0020
5	PREPBLKTJA	.0414	.0063	.0710	.0512
6	S95T000837_L	61.39	24.27	307.6	-22.95
7	S95T000837	48.32	21.66	172.6	20.05
8	S95T000837_D	38.92	19.42	186.0	11.54
9	S95T000837_A	4457.	28.75	4830.	4466.
10	CCV	4.995	.0130	5.243	5.092
11	CCB	.0012	.0001	.0009	-.0001
12	S95T000840_L	-40.28	2.076	230.4	-25.20
13	S95T000840	29.93	16.60	107.0	41.43
14	S95T000840_D	20.48	14.08	116.8	17.90
15	S95T000840_A	5011.	30.72	5382.	5011.
16	ICSA	.0001	.0178	-.0257	-.0032
17	ICSAB	.4648	.0171	.9414	-.0019
18	CCV_1	5.032	.0131	5.260	5.138
19	CCB_1	.0005	.0000	.0004	-.0005

BEST AVAILABLE COPY

WHC-SD-WM-DP-154, REV. 0

1309	1	ICV	AG	5.0335	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	AL	5.0089	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	AS	5.2157	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	B	5.0218	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	BA	4.9489	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	BE	5.2384	1	5/24/95	21:11	big	0.005 @ICP-Q
1309	1	ICV	BI	5.1005	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	CA	5.2633	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	CD	5.221	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	CE	5.0828	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	CO	5.1861	1	5/24/95	21:11	big	0.02 @ICP-Q
1309	1	ICV	CR	5.2106	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	CU	5.0381	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	EU	0.0107	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	FE	5.1867	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	K	4.9837	1	5/24/95	21:11	big	0.3 @ICP-Q
1309	1	ICV	LA	5.0556	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	LI	4.9353	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	MG	5.0047	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	MN	5.0598	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	MO	5.1817	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	NA	4.9133	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	ND	5.1875	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	NI	5.1783	1	5/24/95	21:11	big	0.02 @ICP-Q
1309	1	ICV	P	5.2747	1	5/24/95	21:11	big	0.2 @ICP-Q
1309	1	ICV	PB	5.2132	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	S	5.1346	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	SB	4.8516	1	5/24/95	21:11	big	0.2 @ICP-Q
1309	1	ICV	SE	5.1793	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	SI	4.8513	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	SM	5.048	1	5/24/95	21:11	big	0.1 @ICP-Q
1309	1	ICV	SR	4.9822	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	TH	-0.0429	1	5/24/95	21:11	big	0 @ICP-Q
1309	1	ICV	TI	4.9451	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	TL	5.0525	1	5/24/95	21:11	big	0.2 @ICP-Q
1309	1	ICV	U	9.9749	1	5/24/95	21:11	big	0.4 @ICP-Q
1309	1	ICV	V	4.9471	1	5/24/95	21:11	big	0.05 @ICP-Q
1309	1	ICV	Y	0.0129	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	ZN	5.2014	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	1	ICV	ZR	5.0481	1	5/24/95	21:11	big	0.01 @ICP-Q
1309	2	ICB	AG	-0.0053	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	AL	0.0034	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	AS	0.0111	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	B	0.0025	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	BA	-0.0001	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	BE	-0.0002	1	5/24/95	21:15	big	0.005 @ICP-Q
1309	2	ICB	BI	-0.0108	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	CA	0.0123	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	CD	0.0011	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	CE	0.0062	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	CO	-0.0008	1	5/24/95	21:15	big	0.02 @ICP-Q
1309	2	ICB	CR	0.002	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	CU	0.0004	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	EU	0.0008	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	FE	0.0024	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	K	0.1511	1	5/24/95	21:15	big	0.3 @ICP-Q
1309	2	ICB	LA	0.0019	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	LI	0.0001	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	MG	0.018	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	MN	-0.0001	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	MO	0.0012	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	NA	0.0046	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	ND	0.0035	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	NI	0.0008	1	5/24/95	21:15	big	0.02 @ICP-Q
1309	2	ICB	P	-0.0047	1	5/24/95	21:15	big	0.2 @ICP-Q
1309	2	ICB	PB	0.0211	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	S	-0.0014	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	SB	0.0012	1	5/24/95	21:15	big	0.2 @ICP-Q
1309	2	ICB	SE	-0.0119	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	SI	0.0029	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	SM	0.0081	1	5/24/95	21:15	big	0.1 @ICP-Q
1309	2	ICB	SR	0.0006	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	TH	0.0034	1	5/24/95	21:15	big	0 @ICP-Q
1309	2	ICB	TI	0.0011	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	TL	0.0278	1	5/24/95	21:15	big	0.2 @ICP-Q
1309	2	ICB	U	0.0217	1	5/24/95	21:15	big	0.4 @ICP-Q
1309	2	ICB	V	0.0013	1	5/24/95	21:15	big	0.05 @ICP-Q
1309	2	ICB	Y	0.0003	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	ZN	0.0006	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	2	ICB	ZR	-0.0003	1	5/24/95	21:15	big	0.01 @ICP-Q
1309	3	ICSA	AG	-0.0053	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	AL	241.5901	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	AS	-0.0593	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	B	0.0052	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	BA	0.0033	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	BE	-0.0001	1	5/24/95	21:18	big	0.005 @ICP-Q
1309	3	ICSA	BI	0.0877	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	CA	249.2774	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	CD	-0.0001	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	CE	0.017	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	CO	-0.0001	1	5/24/95	21:18	big	0.02 @ICP-Q
1309	3	ICSA	CR	-0.0033	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	CU	-0.0085	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	EU	0.0286	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	FE	92.7002	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	K	0.2204	1	5/24/95	21:18	big	0.3 @ICP-Q
1309	3	ICSA	LA	-0.0026	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	LI	0.0019	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	MG	250.8871	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	MN	-0.0073	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	MO	-0.0114	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	NA	190.3643	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	ND	0.0194	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	NI	-0.0099	1	5/24/95	21:18	big	0.02 @ICP-Q
1309	3	ICSA	P	0.0509	1	5/24/95	21:18	big	0.2 @ICP-Q
1309	3	ICSA	PB	0.0661	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	S	0.0341	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	SB	0.0001	1	5/24/95	21:18	big	0.2 @ICP-Q
1309	3	ICSA	SE	0.0874	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	SI	0.0283	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	SM	-0.0089	1	5/24/95	21:18	big	0.1 @ICP-Q
1309	3	ICSA	SR	-0.003	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	TH	-0.0094	1	5/24/95	21:18	big	0 @ICP-Q
1309	3	ICSA	TI	0.0011	1	5/24/95	21:18	big	0.01 @ICP-Q
1309	3	ICSA	TL	0.037	1	5/24/95	21:18	big	0.2 @ICP-Q
1309	3	ICSA	U	0.1811	1	5/24/95	21:18	big	0.4 @ICP-Q
1309	3	ICSA	V	-0.0013	1	5/24/95	21:18	big	0.05 @ICP-Q
1309	3	ICSA	Y	0.0172	1	5/24/95	21:18	big	0.01 @ICP-Q

8 of 26/95

1309	3		ICSA	ZN		-0.0256		1	5/24/95	21:18	blg	0.01	@ICP-Q
1309	3		ICSA	ZR		-0.0019		1	5/24/95	21:18	blg	0.01	@ICP-Q
1309	4		ICSAB	AG		0.9545		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	AL		240.3781		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	AS		-0.0467		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	B		0.0013		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	BA		0.4584		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	BE		0.4759		1	5/24/95	21:22	blg	0.005	@ICP-Q
1309	4		ICSAB	BI		0.0488		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	CA		249.8119		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	CD		0.9526		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	CE		0.0094		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	CO		0.4704		1	5/24/95	21:22	blg	0.02	@ICP-Q
1309	4		ICSAB	CR		0.4724		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	CU		0.4712		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	EU		0.029		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	FE		92.5648		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	K		0.1569		1	5/24/95	21:22	blg	0.3	@ICP-Q
1309	4		ICSAB	LA		-0.0034		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	LI		0.9644		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	MG		249.2108		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	MN		0.4472		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	MO		-0.0115		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	NA		188.1726		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	ND		0.0188		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	NI		0.9095		1	5/24/95	21:22	blg	0.02	@ICP-Q
1309	4		ICSAB	P		0.0684		1	5/24/95	21:22	blg	0.2	@ICP-Q
1309	4		ICSAB	PB		1.023		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	S		0.0428		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	SB		0.0013		1	5/24/95	21:22	blg	0.2	@ICP-Q
1309	4		ICSAB	SE		0.0778		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	SI		0.0355		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	SM		-0.0018		1	5/24/95	21:22	blg	0.1	@ICP-Q
1309	4		ICSAB	SR		-0.0029		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	TH		-0.0055		1	5/24/95	21:22	blg	0	@ICP-Q
1309	4		ICSAB	TI		0.0011		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	TL		0.0363		1	5/24/95	21:22	blg	0.2	@ICP-Q
1309	4		ICSAB	U		0.1695		1	5/24/95	21:22	blg	0.4	@ICP-Q
1309	4		ICSAB	V		0.4685		1	5/24/95	21:22	blg	0.05	@ICP-Q
1309	4		ICSAB	Y		0.0172		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	ZN		0.9491		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	4		ICSAB	ZR		-0.002		1	5/24/95	21:22	blg	0.01	@ICP-Q
1309	5		PREPBLKTJA	AG-F-01		-0.048		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	AL-F-01		-0.0435		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	AS-F-01		-0.0294		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	B-F-01		-0.0005		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	BA-F-01		0.0194		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	BE-F-01		-0.004		10	5/24/95	21:25	blg	0.005	@ICP-F0
1309	5		PREPBLKTJA	BI-F-01		-8.3595		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	CA-F-01		0.8742		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	CD-F-01		0.0119		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	CE-F-01		-0.0426		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	CO-F-01		-0.0002		10	5/24/95	21:25	blg	0.02	@ICP-F0
1309	5		PREPBLKTJA	CR-F-01		0.013		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	CU-F-01		0.0189		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	EU-F-01		0.0221		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	FE-F-01		0.0805		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	K-F-01		11935.8311		10	5/24/95	21:25	blg	0.3	@ICP-F0
1309	5		PREPBLKTJA	LA-F-01		-0.0121		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	LI-F-01		0.0058		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	MG-F-01		0.3568		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	MN-F-01		0.021		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	MO-F-01		0.0052		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	NA-F-01		4.2219		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	ND-F-01		0.0363		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	NI-F-01		0.8602		10	5/24/95	21:25	blg	0.02	@ICP-F0
1309	5		PREPBLKTJA	P-F-01		0.1309		10	5/24/95	21:25	blg	0.2	@ICP-F0
1309	5		PREPBLKTJA	PB-F-01		0.4434		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	S-F-01		0.3281		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	SB-F-01		-0.0658		10	5/24/95	21:25	blg	0.2	@ICP-F0
1309	5		PREPBLKTJA	SE-F-01		-2.2681		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	SI-F-01		0.2011		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	SM-F-01		0.1218		10	5/24/95	21:25	blg	0.1	@ICP-F0
1309	5		PREPBLKTJA	SR-F-01		0		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	TH-F-01		0.1446		10	5/24/95	21:25	blg	0	@ICP-F0
1309	5		PREPBLKTJA	TI-F-01		0.0258		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	TL-F-01		0.179		10	5/24/95	21:25	blg	0.2	@ICP-F0
1309	5		PREPBLKTJA	U-F-01		-2.875		10	5/24/95	21:25	blg	0.4	@ICP-F0
1309	5		PREPBLKTJA	V-F-01		0.0414		10	5/24/95	21:25	blg	0.05	@ICP-F0
1309	5		PREPBLKTJA	Y-F-01		0.0063		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	ZN-F-01		0.071		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	5		PREPBLKTJA	ZR-F-01		0.0512		10	5/24/95	21:25	blg	0.01	@ICP-F0
1309	6	S95T000837		AG-F-01	<	47.63		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		AL-F-01		612.3187		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		AS-F-01	<	238.15		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		B-F-01	<	238.15		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		BA-F-01	<	238.15		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		BE-F-01	<	23.815		4783	5/24/95	21:33	blg	0.005	@ICP-F0
1309	6	S95T000837		BI-F-01	<	476.3		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		CA-F-01		1528.0908		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		CD-F-01	<	47.63		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		CE-F-01	<	476.3		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		CO-F-01	<	95.26		4783	5/24/95	21:33	blg	0.02	@ICP-F0
1309	6	S95T000837		CR-F-01		186.6992		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		CU-F-01	<	47.63		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		FE-F-01		22275.4863		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		K-F-01		5504964		4783	5/24/95	21:33	blg	0.3	@ICP-F0
1309	6	S95T000837		LA-F-01	<	238.15		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		LI-F-01	<	47.63		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		MG-F-01		554.6263		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		MN-F-01		109.7187		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		MO-F-01	<	238.15		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		NA-F-01		102925.821		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		ND-F-01	<	476.3		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		NI-F-01		4489.9272		4783	5/24/95	21:33	blg	0.02	@ICP-F0
1309	6	S95T000837		P-F-01		20065.8184		4783	5/24/95	21:33	blg	0.2	@ICP-F0
1309	6	S95T000837		PB-F-01		959.4335		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		S-F-01		6529.8353		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		SB-F-01	<	952.6		4783	5/24/95	21:33	blg	0.2	@ICP-F0
1309	6	S95T000837		SE-F-01	<	476.3		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		SI-F-01		882.3619		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		SM-F-01	<	476.3		4783	5/24/95	21:33	blg	0.1	@ICP-F0
1309	6	S95T000837		SR-F-01		636.8972		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		TH-F-01	<	47.63		4783	5/24/95	21:33	blg	0.01	@ICP-F0
1309	6	S95T000837		TL-F-01	<	952.6		4783	5/24/95	21:33	blg	0.2	@ICP-F0
1309	6	S95T000837		U-F-01		21228.5117		4783	5/24/95	21:33	blg	0.4	@ICP-F0
1309	6	S95T000837		V-F-01		238.15		4783	5/24/95	21:33	blg	0.05	@ICP-F0
1309	6	S95T000837		ZN-F-01		172.6108		4783	5/24/95	21:33	blg	0.01	@ICP-F0

1309	6	S95T000837		ZR-F-01	<	47.83	4763	5/24/95	21:33	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	AG-F-01	<47.6300	<47.6400	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	AL-F-01	812.3187	588.4138	4764	5/24/95	21:37	bg	0.06	@ICP-F0
1309	7	S95T000837	DUP	AS-F-01	<238.1500	<238.2000	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	B-F-01	<238.1500	<238.2000	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	BA-F-01	<238.1500	<238.2000	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	BE-F-01	<23.8150	<23.8200	4764	5/24/95	21:37	bg	0.005	@ICP-F0
1309	7	S95T000837	DUP	BI-F-01	<478.3000	<478.4000	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	CA-F-01	1526.0908	1591.8488	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	CD-F-01	<47.6300	<47.6400	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	CE-F-01	<478.3000	<478.4000	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	CO-F-01	<95.2600	<95.2800	4764	5/24/95	21:37	bg	0.02	@ICP-F0
1309	7	S95T000837	DUP	CR-F-01	186.6902	171.9453	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	CU-F-01	<47.6300	<47.6400	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	FE-F-01	22275.4863	23014.9121	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	K-F-01	5504964	5930813	4764	5/24/95	21:37	bg	0.3	@ICP-F0
1309	7	S95T000837	DUP	LA-F-01	<238.1500	<238.2000	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	LI-F-01	<47.6300	<47.6400	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	MG-F-01	554.6263	<478.4000	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	MN-F-01	109.7187	106.3787	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	MO-F-01	<238.1500	<238.2000	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	NA-F-01	102925.921	105109.695	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	ND-F-01	<478.3000	<478.4000	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	NI-F-01	4489.9272	3528.5999	4764	5/24/95	21:37	bg	0.02	@ICP-F0
1309	7	S95T000837	DUP	P-F-01	20089.8164	20763.7305	4764	5/24/95	21:37	bg	0.2	@ICP-F0
1309	7	S95T000837	DUP	PB-F-01	959.4335	900.0341	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	S-F-01	6529.8353	6486.9629	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	SB-F-01	<952.6000	<952.8000	4764	5/24/95	21:37	bg	0.2	@ICP-F0
1309	7	S95T000837	DUP	SE-F-01	<478.3000	<478.4000	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	SI-F-01	882.3619	782.1531	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	SM-F-01	<476.3000	<476.4000	4764	5/24/95	21:37	bg	0.1	@ICP-F0
1309	7	S95T000837	DUP	SR-F-01	636.8972	664.9849	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	TI-F-01	<47.6300	<47.6400	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	TL-F-01	<952.6000	<952.8000	4764	5/24/95	21:37	bg	0.2	@ICP-F0
1309	7	S95T000837	DUP	U-F-01	21228.5117	21747.4785	4764	5/24/95	21:37	bg	0.4	@ICP-F0
1309	7	S95T000837	DUP	V-F-01	<238.1500	<238.2000	4764	5/24/95	21:37	bg	0.05	@ICP-F0
1309	7	S95T000837	DUP	ZN-F-01	172.8108	185.9789	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	7	S95T000837	DUP	ZR-F-01	<47.6300	<47.6400	4764	5/24/95	21:37	bg	0.01	@ICP-F0
1309	8	S95T000837_A		AG-F-01	5000	3644.6506	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		AL-F-01	5000	4375.9235	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		AS-F-01	5000	4808.234	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		B-F-01	5000	4456.8206	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		BA-F-01	5000	4259.0215	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		BE-F-01	5000	4578.8538	4763	5/24/95	21:40	bg	0.005	@ICP-F0
1309	8	S95T000837_A		BI-F-01	5000	875.7568	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		CA-F-01	5000	4864.314	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		CD-F-01	5000	4674.436	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		CE-F-01	5000	4439.2856	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		CO-F-01	5000	4621.1372	4763	5/24/95	21:40	bg	0.02	@ICP-F0
1309	8	S95T000837_A		CR-F-01	5000	4658.7978	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		CU-F-01	5000	4382.334	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		FE-F-01	5000	4468.7813	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		K-F-01	0	5816167	4763	5/24/95	21:40	bg	0.3	@ICP-F0
1309	8	S95T000837_A		LA-F-01	5000	4399.811	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		LI-F-01	5000	4236.7148	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		MG-F-01	5000	4252.4216	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		MN-F-01	5000	3429.1978	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		MO-F-01	5000	4704.6523	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		NA-F-01	0	1100585.07	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		ND-F-01	5000	4510.3081	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		NI-F-01	5000	4587.96	4763	5/24/95	21:40	bg	0.02	@ICP-F0
1309	8	S95T000837_A		P-F-01	5000	5226.3613	4763	5/24/95	21:40	bg	0.2	@ICP-F0
1309	8	S95T000837_A		PB-F-01	5000	4486.8448	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		S-F-01	5000	4579.4243	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		SB-F-01	5000	4414.9453	4763	5/24/95	21:40	bg	0.2	@ICP-F0
1309	8	S95T000837_A		SE-F-01	5000	3930.9592	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		SI-F-01	5000	4508.6747	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		SM-F-01	5000	4431.8282	4763	5/24/95	21:40	bg	0.1	@ICP-F0
1309	8	S95T000837_A		SR-F-01	5000	4311.3015	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		TI-F-01	5000	4431.8506	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		TL-F-01	5000	4505.8675	4763	5/24/95	21:40	bg	0.2	@ICP-F0
1309	8	S95T000837_A		U-F-01	10000	8882.3711	4763	5/24/95	21:40	bg	0.4	@ICP-F0
1309	8	S95T000837_A		V-F-01	5000	4457.0781	4763	5/24/95	21:40	bg	0.05	@ICP-F0
1309	8	S95T000837_A		ZN-F-01	5000	4657.5586	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	8	S95T000837_A		ZR-F-01	5000	4486.1416	4763	5/24/95	21:40	bg	0.01	@ICP-F0
1309	9		CCV	AG		5.0978	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	AL		5.0699	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	AS		5.2479	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	B		5.0694	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	BA		4.9983	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	BE		5.2704	1	5/24/95	21:44	bg	0.005	@ICP-Q
1309	9		CCV	BI		5.1339	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	CA		5.315	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	CD		5.249	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	CE		5.1218	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	CO		5.2183	1	5/24/95	21:44	bg	0.02	@ICP-Q
1309	9		CCV	CR		5.2537	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	CU		5.0937	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	EU		0.0108	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	FE		5.2246	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	K		5.15	1	5/24/95	21:44	bg	0.3	@ICP-Q
1309	9		CCV	LA		5.1091	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	LI		5.0437	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	MG		5.0697	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	MN		5.1007	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	MO		5.2224	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	NA		4.9942	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	ND		5.2462	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	NI		5.2102	1	5/24/95	21:44	bg	0.02	@ICP-Q
1309	9		CCV	P		5.2113	1	5/24/95	21:44	bg	0.2	@ICP-Q
1309	9		CCV	PB		5.2506	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	S		5.166	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	SB		4.8674	1	5/24/95	21:44	bg	0.2	@ICP-Q
1309	9		CCV	SE		5.1973	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	SI		4.8945	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	SM		5.0998	1	5/24/95	21:44	bg	0.1	@ICP-Q
1309	9		CCV	SR		5.0109	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	TH		-0.0354	1	5/24/95	21:44	bg	0	@ICP-Q
1309	9		CCV	TI		4.9972	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	TL		5.0387	1	5/24/95	21:44	bg	0.2	@ICP-Q
1309	9		CCV	U		10.0898	1	5/24/95	21:44	bg	0.4	@ICP-Q
1309	9		CCV	V		4.995	1	5/24/95	21:44	bg	0.05	@ICP-Q
1309	9		CCV	Y		0.013	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	ZN		5.2428	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	9		CCV	ZR		5.0916	1	5/24/95	21:44	bg	0.01	@ICP-Q
1309	10		CCB	AG		-0.0047	1	5/24/95	21:48	bg	0.01	@ICP-Q
1309	10		CCB	AL		0.0066	1	5/24/95	21:48	bg	0.05	@ICP-Q
1309	10		CCB	AS		0.001	1	5/24/95	21:48	bg	0.05	@ICP-Q

1309	10		CCB	B			0.0055	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	BA			-0.0001	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	BE			-0.0003	1	5/24/95	21:48	bjg	0.005	@ICP-Q
1309	10		CCB	BI			0.025	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	CA			0.0105	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	CD			0.0009	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	CE			0.0035	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	CO			-0.001	1	5/24/95	21:48	bjg	0.02	@ICP-Q
1309	10		CCB	CR			0.0019	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	CU			0.0002	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	EU			0.0006	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	FE			0.0017	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	K			0.2224	1	5/24/95	21:48	bjg	0.2	@ICP-Q
1309	10		CCB	LA			0.0008	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	LI			-0.0002	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	MG			0.0078	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	MN			-0.0001	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	MO			-0.0005	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	NA			0.0043	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	ND			0.0023	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	NI			0.0045	1	5/24/95	21:48	bjg	0.02	@ICP-Q
1309	10		CCB	P			0.0002	1	5/24/95	21:48	bjg	0.2	@ICP-Q
1309	10		CCB	PB			0.0197	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	S			-0.0036	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	SB			-0.0021	1	5/24/95	21:48	bjg	0.2	@ICP-Q
1309	10		CCB	SE			0.0141	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	SI			0.0047	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	SM			0.005	1	5/24/95	21:48	bjg	0.1	@ICP-Q
1309	10		CCB	SR			0.0005	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	TH			0.0014	1	5/24/95	21:48	bjg	0	@ICP-Q
1309	10		CCB	TI			0.0006	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	TL			0.0333	1	5/24/95	21:48	bjg	0.2	@ICP-Q
1309	10		CCB	U			0.0132	1	5/24/95	21:48	bjg	0.4	@ICP-Q
1309	10		CCB	V			0.0012	1	5/24/95	21:48	bjg	0.05	@ICP-Q
1309	10		CCB	Y			0.0002	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	ZN			0.0009	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	10		CCB	ZR			-0.0001	1	5/24/95	21:48	bjg	0.01	@ICP-Q
1309	11	S95T000840		AG-F-01	<		52.95	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		AL-F-01			701.7925	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		AS-F-01	<		264.75	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		B-F-01	<		264.75	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		BA-F-01	<		264.75	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		BE-F-01	<		26.475	5295	5/24/95	21:55	bjg	0.005	@ICP-F0
1309	11	S95T000840		BI-F-01	<		529.5	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		CA-F-01			2020.3022	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		CD-F-01	<		52.95	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		CE-F-01	<		529.5	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		CO-F-01	<		105.9	5295	5/24/95	21:55	bjg	0.02	@ICP-F0
1309	11	S95T000840		CR-F-01			130.8144	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		CU-F-01	<		52.95	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		FE-F-01			24409.0625	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		K-F-01			8266801	5295	5/24/95	21:55	bjg	0.3	@ICP-F0
1309	11	S95T000840		LA-F-01	<		264.75	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		LI-F-01	<		52.95	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		MG-F-01			545.0849	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		MN-F-01			116.8694	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		MO-F-01	<		264.75	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		NA-F-01			107856.968	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		ND-F-01	<		529.5	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		NI-F-01			4870.4131	5295	5/24/95	21:55	bjg	0.02	@ICP-F0
1309	11	S95T000840		P-F-01			22253.3477	5295	5/24/95	21:55	bjg	0.2	@ICP-F0
1309	11	S95T000840		PB-F-01			560.2887	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		S-F-01			8406.8104	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		SB-F-01	<		1059	5295	5/24/95	21:55	bjg	0.2	@ICP-F0
1309	11	S95T000840		SE-F-01	<		529.5	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		SI-F-01			889.916	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		SM-F-01	<		529.5	5295	5/24/95	21:55	bjg	0.1	@ICP-F0
1309	11	S95T000840		SR-F-01			837.5718	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		TI-F-01	<		52.95	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		TL-F-01	<		1059	5295	5/24/95	21:55	bjg	0.2	@ICP-F0
1309	11	S95T000840		U-F-01			14343.8094	5295	5/24/95	21:55	bjg	0.4	@ICP-F0
1309	11	S95T000840		V-F-01	<		264.75	5295	5/24/95	21:55	bjg	0.05	@ICP-F0
1309	11	S95T000840		ZN-F-01			107.0397	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	11	S95T000840		ZR-F-01	<		52.95	5295	5/24/95	21:55	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	AG-F-01	<52.9500		<52.8100	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	AL-F-01	701.7925		683.1891	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	AS-F-01	<264.7500		<264.0500	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	B-F-01	<264.7500		<264.0500	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	BA-F-01	<264.7500		<264.0500	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	BE-F-01	<26.4750		<26.4050	5281	5/24/95	21:59	bjg	0.005	@ICP-F0
1309	12	S95T000840	DUP	BI-F-01	<529.5000		<528.1000	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	CA-F-01	2020.3022		1930.5895	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	CD-F-01	<52.9500		<52.8100	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	CE-F-01	<529.5000		<528.1000	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	CO-F-01	<105.9000		<105.6200	5281	5/24/95	21:59	bjg	0.02	@ICP-F0
1309	12	S95T000840	DUP	CR-F-01	130.8144		93.8659	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	CU-F-01	<52.9500		<52.8100	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	FE-F-01	24409.0625		23719.8867	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	K-F-01	8266801		8216188	5281	5/24/95	21:59	bjg	0.3	@ICP-F0
1309	12	S95T000840	DUP	LA-F-01	<264.7500		<264.0500	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	LI-F-01	<52.9500		<52.8100	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	MG-F-01	545.0849		<528.1000	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	MN-F-01	116.8694		113.8667	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	MO-F-01	<264.7500		<264.0500	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	NA-F-01	107856.968		108929.976	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	ND-F-01	<529.5000		<528.1000	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	NI-F-01	4870.4131		5424.2622	5281	5/24/95	21:59	bjg	0.02	@ICP-F0
1309	12	S95T000840	DUP	P-F-01	22253.3477		21404.5352	5281	5/24/95	21:59	bjg	0.2	@ICP-F0
1309	12	S95T000840	DUP	PB-F-01	560.2887		540.6364	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	S-F-01	8406.8104		8450.9424	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	SB-F-01	<1059.0000		<1056.2000	5281	5/24/95	21:59	bjg	0.2	@ICP-F0
1309	12	S95T000840	DUP	SE-F-01	<529.5000		<528.1000	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	SI-F-01	889.916		649.223	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	SM-F-01	<529.5000		<528.1000	5281	5/24/95	21:59	bjg	0.1	@ICP-F0
1309	12	S95T000840	DUP	SR-F-01	837.5718		827.1594	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	TI-F-01	<52.9500		<52.8100	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	TL-F-01	<1059.0000		<1056.2000	5281	5/24/95	21:59	bjg	0.2	@ICP-F0
1309	12	S95T000840	DUP	U-F-01	14343.8094		14007.8789	5281	5/24/95	21:59	bjg	0.4	@ICP-F0
1309	12	S95T000840	DUP	V-F-01	<264.7500		<264.0500	5281	5/24/95	21:59	bjg	0.05	@ICP-F0
1309	12	S95T000840	DUP	ZN-F-01	107.0397		116.7746	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	12	S95T000840	DUP	ZR-F-01	<52.9500		<52.8100	5281	5/24/95	21:59	bjg	0.01	@ICP-F0
1309	13	S95T000840_A		AG-F-01		5000	4302.2998	5295	5/24/95	22:03	bjg	0.01	@ICP-F0
1309	13	S95T000840_A		AL-F-01		5000	4988.0292	5295	5/24/95	22:03	bjg	0.05	@ICP-F0
1309	13	S95T000840_A		AS-F-01		5000	5328.2124	5295	5/24/95	22:03	bjg	0.05	@ICP-F0
1309	13	S95T000840_A		B-F-01		5000	4987.9155	5295	5/24/95	22:03	bjg	0.05	@ICP-F0
1309	13	S95T000840_A		BA-F-01		5000	4745.8535	5295	5/24/95	22:03	bjg	0.05	@ICP-F0
1309	13	S95T000840_A		BE-F-01		5000	5146.6177	5295	5/24/95	22:03	bjg	0.005	@ICP-F0
1309	13	S95T000840_A		BI-F-01		5000	529.4642	5295	5/24/95	22:03	bjg	0.1	@ICP-F0

1309	13	S95T000840_A		CA-F-01	5000	5428.3272	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		CD-F-01	5000	5291.1631	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		CE-F-01	5000	4914.7825	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		CO-F-01	5000	5204.8785	5295	5/24/95	22:03	bg	0.02 @ICP-F0
1309	13	S95T000840_A		CR-F-01	5000	5277.1075	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		CU-F-01	5000	4874.4702	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		FE-F-01	5000	5370.6074	5295	5/24/95	22:03	bg	0.05 @ICP-F0
1309	13	S95T000840_A		K-F-01	0	6245984.5	5295	5/24/95	22:03	bg	0.3 @ICP-F0
1309	13	S95T000840_A		LA-F-01	5000	4903.8125	5295	5/24/95	22:03	bg	0.06 @ICP-F0
1309	13	S95T000840_A		LI-F-01	5000	4857.9682	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		MG-F-01	5000	4991.726	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		MN-F-01	5000	4964.7581	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		MO-F-01	5000	5277.5908	5295	5/24/95	22:03	bg	0.05 @ICP-F0
1309	13	S95T000840_A		NA-F-01	0	111960.171	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		ND-F-01	5000	5013.7017	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		NI-F-01	5000	4798.7612	5295	5/24/95	22:03	bg	0.02 @ICP-F0
1309	13	S95T000840_A		P-F-01	5000	5266.039	5295	5/24/95	22:03	bg	0.2 @ICP-F0
1309	13	S95T000840_A		PB-F-01	5000	5458.0682	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		S-F-01	5000	5169.0986	5295	5/24/95	22:03	bg	0.05 @ICP-F0
1309	13	S95T000840_A		SB-F-01	5000	4955.9751	5295	5/24/95	22:03	bg	0.2 @ICP-F0
1309	13	S95T000840_A		SE-F-01	5000	4079.2593	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		SI-F-01	5000	5119.5307	5295	5/24/95	22:03	bg	0.05 @ICP-F0
1309	13	S95T000840_A		SM-F-01	5000	4940.2407	5295	5/24/95	22:03	bg	0.1 @ICP-F0
1309	13	S95T000840_A		SR-F-01	5000	4791.9809	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		TH-F-01	5000	4967.4118	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		TL-F-01	5000	5189.3677	5295	5/24/95	22:03	bg	0.2 @ICP-F0
1309	13	S95T000840_A		U-F-01	10000	9588.8926	5295	5/24/95	22:03	bg	0.4 @ICP-F0
1309	13	S95T000840_A		V-F-01	5000	5010.886	5295	5/24/95	22:03	bg	0.05 @ICP-F0
1309	13	S95T000840_A		ZN-F-01	5000	5275.1258	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	13	S95T000840_A		ZR-F-01	5000	5011.4702	5295	5/24/95	22:03	bg	0.01 @ICP-F0
1309	14		ICSA	AG		-0.0022	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	AL		242.1319	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	AS		-0.0411	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	B		0.0075	1	5/24/95	22:06	bg	0.06 @ICP-Q
1309	14		ICSA	BA		0.0034	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	BE		-0.0003	1	5/24/95	22:06	bg	0.005 @ICP-Q
1309	14		ICSA	BI		0.0521	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	CA		252.4526	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	CD		0.0001	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	CE		0.026	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	CO		-0.001	1	5/24/95	22:06	bg	0.02 @ICP-Q
1309	14		ICSA	CR		-0.0043	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	CU		-0.0089	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	EU		0.0235	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	FE		93.4896	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	K		0.0893	1	5/24/95	22:06	bg	0.3 @ICP-Q
1309	14		ICSA	LA		-0.0014	1	5/24/95	22:06	bg	0.06 @ICP-Q
1309	14		ICSA	LI		0.0026	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	MG		252.0584	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	MN		-0.0071	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	MO		-0.0145	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	NA		189.4426	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	ND		0.0177	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	NI		-0.0205	1	5/24/95	22:06	bg	0.02 @ICP-Q
1309	14		ICSA	P		0.0862	1	5/24/95	22:06	bg	0.2 @ICP-Q
1309	14		ICSA	PB		0.0814	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	S		0.0235	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	SB		-0.0083	1	5/24/95	22:06	bg	0.2 @ICP-Q
1309	14		ICSA	SE		0.0674	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	SI		0.0323	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	SM		0.0016	1	5/24/95	22:06	bg	0.1 @ICP-Q
1309	14		ICSA	SR		-0.003	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	TH		0.0108	1	5/24/95	22:06	bg	0 @ICP-Q
1309	14		ICSA	TI		0.0015	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	TL		0.0355	1	5/24/95	22:06	bg	0.2 @ICP-Q
1309	14		ICSA	U		0.1755	1	5/24/95	22:06	bg	0.4 @ICP-Q
1309	14		ICSA	V		0.0001	1	5/24/95	22:06	bg	0.05 @ICP-Q
1309	14		ICSA	Y		0.0178	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	ZN		-0.0257	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	14		ICSA	ZR		-0.0032	1	5/24/95	22:06	bg	0.01 @ICP-Q
1309	15		ICSAB	AG		0.9552	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	AL		241.2871	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	AS		-0.0554	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	B		-0.0014	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	BA		0.4572	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	BE		0.4734	1	5/24/95	22:10	bg	0.005 @ICP-Q
1309	15		ICSAB	BI		0.06	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	CA		246.8676	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	CD		0.9378	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	CE		0.013	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	CO		0.466	1	5/24/95	22:10	bg	0.02 @ICP-Q
1309	15		ICSAB	CR		0.4672	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	CU		0.4721	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	EU		0.0348	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	FE		91.8775	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	K		-0.0131	1	5/24/95	22:10	bg	0.3 @ICP-Q
1309	15		ICSAB	LA		-0.0027	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	LI		0.9822	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	MG		249.758	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	MN		0.443	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	MO		-0.0134	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	NA		190.8249	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	ND		0.0172	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	NI		0.8989	1	5/24/95	22:10	bg	0.02 @ICP-Q
1309	15		ICSAB	P		0.0827	1	5/24/95	22:10	bg	0.2 @ICP-Q
1309	15		ICSAB	PB		1.0091	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	S		0.0191	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	SB		-0.0008	1	5/24/95	22:10	bg	0.2 @ICP-Q
1309	15		ICSAB	SE		0.0921	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	SI		0.0347	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	SM		-0.0027	1	5/24/95	22:10	bg	0.1 @ICP-Q
1309	15		ICSAB	SR		-0.0028	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	TH		-0.0135	1	5/24/95	22:10	bg	0 @ICP-Q
1309	15		ICSAB	TI		0.0011	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	TL		0.0498	1	5/24/95	22:10	bg	0.2 @ICP-Q
1309	15		ICSAB	U		0.2083	1	5/24/95	22:10	bg	0.4 @ICP-Q
1309	15		ICSAB	V		0.4648	1	5/24/95	22:10	bg	0.05 @ICP-Q
1309	15		ICSAB	Y		0.0171	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	ZN		0.9414	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	15		ICSAB	ZR		-0.0019	1	5/24/95	22:10	bg	0.01 @ICP-Q
1309	16		CCV	AG		5.1211	1	5/24/95	22:13	bg	0.01 @ICP-Q
1309	16		CCV	AL		5.1175	1	5/24/95	22:13	bg	0.05 @ICP-Q
1309	16		CCV	AS		5.2842	1	5/24/95	22:13	bg	0.05 @ICP-Q
1309	16		CCV	B		5.1215	1	5/24/95	22:13	bg	0.05 @ICP-Q
1309	16		CCV	BA		5.0542	1	5/24/95	22:13	bg	0.05 @ICP-Q
1309	16		CCV	BE		5.324	1	5/24/95	22:13	bg	0.005 @ICP-Q
1309	16		CCV	BI		5.1475	1	5/24/95	22:13	bg	0.1 @ICP-Q
1309	16		CCV	CA		5.3224	1	5/24/95	22:13	bg	0.1 @ICP-Q

1309	16	CCV	CD	5.2715	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	CE	5.1791	1	5/24/95	22:13	big	0.1 @ICP-Q
1309	16	CCV	CO	5.2455	1	5/24/95	22:13	big	0.02 @ICP-Q
1309	16	CCV	CR	5.2798	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	CU	5.1575	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	EU	0.0113	1	5/24/95	22:13	big	0.05 @ICP-Q
1309	16	CCV	FE	5.2355	1	5/24/95	22:13	big	0.05 @ICP-Q
1309	16	CCV	K	5.2071	1	5/24/95	22:13	big	0.3 @ICP-Q
1309	16	CCV	LA	5.1701	1	5/24/95	22:13	big	0.05 @ICP-Q
1309	16	CCV	LI	5.1643	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	MG	5.1171	1	5/24/95	22:13	big	0.1 @ICP-Q
1309	16	CCV	MN	5.13	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	MO	5.2559	1	5/24/95	22:13	big	0.05 @ICP-Q
1309	16	CCV	NA	5.0923	1	5/24/95	22:13	big	0.1 @ICP-Q
1309	16	CCV	ND	5.3177	1	5/24/95	22:13	big	0.1 @ICP-Q
1309	16	CCV	NI	5.2437	1	5/24/95	22:13	big	0.02 @ICP-Q
1309	16	CCV	P	5.2731	1	5/24/95	22:13	big	0.2 @ICP-Q
1309	16	CCV	PB	5.2639	1	5/24/95	22:13	big	0.1 @ICP-Q
1309	16	CCV	S	5.1604	1	5/24/95	22:13	big	0.05 @ICP-Q
1309	16	CCV	SB	4.8243	1	5/24/95	22:13	big	0.2 @ICP-Q
1309	16	CCV	SE	5.2256	1	5/24/95	22:13	big	0.1 @ICP-Q
1309	16	CCV	SI	4.9231	1	5/24/95	22:13	big	0.05 @ICP-Q
1309	16	CCV	SM	5.1872	1	5/24/95	22:13	big	0.1 @ICP-Q
1309	16	CCV	SR	5.0714	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	TH	-0.0403	1	5/24/95	22:13	big	0 @ICP-Q
1309	16	CCV	TI	5.0421	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	TL	5.0827	1	5/24/95	22:13	big	0.2 @ICP-Q
1309	16	CCV	U	10.2122	1	5/24/95	22:13	big	0.4 @ICP-Q
1309	16	CCV	V	5.0322	1	5/24/95	22:13	big	0.05 @ICP-Q
1309	16	CCV	Y	0.0131	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	ZN	5.2595	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	16	CCV	ZR	5.1378	1	5/24/95	22:13	big	0.01 @ICP-Q
1309	17	CCB	AG	-0.005	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	AL	0.0081	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	AS	0.0121	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	B	0.0089	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	BA	-0.0001	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	BE	-0.0002	1	5/24/95	22:17	big	0.005 @ICP-Q
1309	17	CCB	BI	0.0072	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	CA	0.009	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	CD	0.001	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	CE	0.0059	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	CO	-0.0005	1	5/24/95	22:17	big	0.02 @ICP-Q
1309	17	CCB	CR	0.0017	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	CU	0.0004	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	EU	0.0005	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	FE	0.0007	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	K	0.0881	1	5/24/95	22:17	big	0.3 @ICP-Q
1309	17	CCB	LA	0.0009	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	LI	-0.0001	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	MG	0.0169	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	MN	-0.0002	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	MO	0.0019	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	NA	0.001	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	ND	0.0038	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	NI	-0.0017	1	5/24/95	22:17	big	0.02 @ICP-Q
1309	17	CCB	P	-0.0044	1	5/24/95	22:17	big	0.2 @ICP-Q
1309	17	CCB	PB	0.019	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	S	0.0061	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	SB	-0.0056	1	5/24/95	22:17	big	0.2 @ICP-Q
1309	17	CCB	SE	0.0081	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	SI	0.004	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	SM	0.0003	1	5/24/95	22:17	big	0.1 @ICP-Q
1309	17	CCB	SR	0	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	TH	0.006	1	5/24/95	22:17	big	0 @ICP-Q
1309	17	CCB	TI	0.0004	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	TL	0.0313	1	5/24/95	22:17	big	0.2 @ICP-Q
1309	17	CCB	U	0.0023	1	5/24/95	22:17	big	0.4 @ICP-Q
1309	17	CCB	V	0.0005	1	5/24/95	22:17	big	0.05 @ICP-Q
1309	17	CCB	Y	0	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	ZN	0.0004	1	5/24/95	22:17	big	0.01 @ICP-Q
1309	17	CCB	ZR	-0.0005	1	5/24/95	22:17	big	0.01 @ICP-Q

05/26/95

FILE # 0950525A

05/03/95 10:50
A-0004-1

LABCORE Data Entry Template for Worklist# 1310

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 **Book#** 4164818

Method: LA-505-~~151~~ 161 Rev/Mod A-1

Worklist Comment: ICP BX-109 FUSION

WHC-SD-WM-DP-154, REV. 0

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-F01	SOLID		
6	SAMPLE	S95T000848	0	F	@ICP-F01	SOLID	95000059	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
7	DUP	S95T000848	0	F	@ICP-F01	SOLID		
8	SPK	S95T000848	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T000851	0	F	@ICP-F01	SOLID	95000059	BX-109
	Analytes Requested:	AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
12	DUP	S95T000851	0	F	@ICP-F01	SOLID		

Data Entry Comments:

B 05/30/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1310

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SPK	S95T000851	0	F	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 1310

5-25-95

Analyst Signature Date

Analyst Signature Date

		D.F.
PREPBLKTSA	1mL-5mL	10
S95T000848	.4819g in 250mL-1mL-5mL	5188
5X	2mL-8mL	25939
S95T000848_D	.4731g in 250mL-1mL-5mL	5284
S95T000848_A	.4819g in 250mL-1mL-2mL-2mL	5188
S95T000851	.5204g in 250mL-1mL-5mL	4800
5X	2mL-8mL	24002
S95T000851_D	.5196g in 250mL-1mL-5mL	4811
S95T000851_A	.5204g in 250mL-1mL-2mL-2mL	4800

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950525A	ICP2	05/25/95	12:58	BJG	Q	CONC
2	ICB	950525A	ICP2	05/25/95	13:02	BJG	Q	CONC
3	ICSA	950525A	ICP2	05/25/95	13:05	BJG	Q	CONC
4	ICSAB	950525A	ICP2	05/25/95	13:09	BJG	Q	CONC
5	PREPBLKTJA	950525A	ICP2	05/25/95	13:13	BJG	S	CONC
6	S95T000848_L	950525A	ICP2	05/25/95	13:17	BJG	S	CONC
7	S95T000848	950525A	ICP2	05/25/95	13:22	BJG	S	CONC
8	S95T000848_D	950525A	ICP2	05/25/95	13:26	BJG	S	CONC
9	S95T000848_A	950525A	ICP2	05/25/95	13:30	BJG	S	CONC
10	CCV	950525A	ICP2	05/25/95	14:00	BJG	Q	CONC
11	CCB	950525A	ICP2	05/25/95	14:03	BJG	Q	CONC
12	S95T000851_L	950525A	ICP2	05/25/95	14:07	BJG	S	CONC
13	S95T000851	950525A	ICP2	05/25/95	14:11	BJG	S	CONC
14	S95T000851_D	950525A	ICP2	05/25/95	14:14	BJG	S	CONC
15	S95T000851_A	950525A	ICP2	05/25/95	14:18	BJG	S	CONC
16	ICSA	950525A	ICP2	05/25/95	14:22	BJG	Q	CONC
17	ICSAB	950525A	ICP2	05/25/95	14:25	BJG	Q	CONC
18	CCV_1	950525A	ICP2	05/25/95	14:29	BJG	Q	CONC
19	CCB_1	950525A	ICP2	05/25/95	14:32	BJG	Q	CONC

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

5-25-95
BK-109 Fusion
S95T000848, 851
1+L, S+L, -5X

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 563 TO ~~572.1~~ 572.1

4/09/96

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.104	5.120	5.305	5.089	5.101	5.340
2	ICB	-.0003	-.0000	.0079	.0065	.0000	.0002
3	ICSA	-.0015	245.3	.0163	.0099	.0034	-.0001
4	ICSAB	.9696	243.8	.0429	.0062	.4648	.4755
5	PREPBLKTJA	-.0028	.1245	.0886	.0647	.0252	-.0016
6	S95T000848_L	1.368	432.4	38.38	196.4	51.52	-5.077
7	S95T000848	1.850	553.5	93.78	59.99	43.33	.5896
8	S95T000848_D	-10.87	523.5	-17.06	39.26	43.46	-.0191
9	S95T000848_A	4523.	5572.	5603.	5045.	4837.	5278.
10	CCV	5.104	5.156	5.357	5.116	5.141	5.365
11	CCB	.0003	.0016	-.0072	.0035	.0002	-.0001
12	S95T000851_L	-18.02	454.3	-216.3	11.67	44.86	-8.169
13	S95T000851	.6613	604.0	-62.52	42.82	42.57	-.3714
14	S95T000851_D	-9.850	515.8	-20.89	35.60	39.63	-.5509
15	S95T000851_A	3631.	5135.	4910.	4581.	4460.	4720.
16	ICSA	.0131	244.5	-.0473	.0095	.0036	-.0002
17	ICSAB	.9534	245.2	-.0310	.0039	.4699	.4795
18	CCV_1	5.038	5.190	5.248	5.098	5.199	5.337
19	CCB_1	.0015	.0053	.0156	.0040	.0006	.0003

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.194	5.221	5.249	5.182	5.193	5.246
2	ICB	.0186	-.0038	.0002	-.0021	.0011	.0004
3	ICSA	.0221	247.7	-.0003	.0001	-.0017	-.0059
4	ICSAB	.0360	247.6	.9423	.0092	.4609	.4636
5	PREPBLKTJA	-9.987	.6905	.0044	-.0109	.0100	.0103
6	S95T000848_L	-2941.	647.3	12.99	108.8	-22.17	196.8
7	S95T000848	-3488.	1222.	-6.172	-18.49	-3.236	216.4
8	S95T000848_D	-4358.	1405.	-5.710	-21.24	-2.604	211.4
9	S95T000848_A	1935.	6718.	5511.	4940.	5395.	5757.
10	CCV	5.157	5.248	5.302	5.228	5.249	5.286
11	CCB	.0022	-.0032	-.0011	.0053	-.0035	-.0007
12	S95T000851_L	-4459.	-181.0	-55.05	-36.80	-80.82	111.9
13	S95T000851	-4131.	813.3	-12.00	49.22	5.644	178.8
14	S95T000851_D	-3682.	859.7	-16.66	-23.58	-17.12	171.7
15	S95T000851_A	714.3	5379.	4731.	4574.	4689.	4927.
16	ICSA	.0365	242.5	-.0026	.0183	-.0004	-.0075
17	ICSAB	.0334	241.2	.9339	.0170	.4615	.4613
18	CCV_1	5.159	5.058	5.132	5.269	5.115	5.151
19	CCB_1	-.0020	-.0083	-.0013	.0089	-.0025	-.0009

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.145	.0096	5.238	4.945	5.179	5.135
2	ICB	.0004	-.0006	-.0008	-.2212	-.0004	-.0003
3	ICSA	-.0075	.0197	92.77	-.1475	-.0043	.0015
4	ICSAB	.4801	.0190	91.97	-.0454	-.0026	.9877
5	PREPBLKTJA	.0216	.0176	.0781	14290.	-.0068	.0095
6	S95T000848_L	18.09	35.39	24650.	6247e3	21.91	53.58
7	S95T000848	24.61	12.65	23540.	5806e3	5.171	37.06

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	Cu	Eu	Fe	K	La	Li
8	S95T000848_D	23.92	18.92	23050.	7093e3	4.549	38.20
9	S95T000848_A	4914.	25.11	28960.	5756e3	4948.	4618.
10	CCV	5.186	.0098	5.265	4.830	5.210	5.172
11	CCB	-.0004	-.0004	-.0010	-.0397	.0006	-.0003
12	S95T000851_L	-6.302	-44.90	20330.	6563e3	-13.90	152.8
13	S95T000851	33.07	-6.981	19580.	6283e3	9.426	165.2
14	S95T000851_D	21.11	3.176	19230.	6000e3	1.817	168.4
15	S95T000851_A	4576.	10.90	24380.	6106e3	4565.	4626.
16	ICSA	-.0099	.0329	91.93	.0782	-.0026	.0020
17	ICSAB	.4836	.0393	91.65	.2102	-.0026	1.013
18	CCV_1	5.270	.0088	5.161	5.310	5.274	5.436
19	CCB_1	-.0006	-.0013	-.0022	.0855	.0013	-.0008

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.121	5.124	5.196	5.079	5.323	5.199
2	ICB	-.0013	.0002	.0029	-.0016	-.0011	.0028
3	ICSA	250.6	-.0060	-.0119	193.2	.0135	-.0224
4	ICSAB	248.5	.4486	-.0152	191.9	.0143	.9129
5	PREPBLKTJA	.1566	.0676	.0018	5.136	-.0051	3.339
6	S95T000848_L	-84.75	171.7	-34.97	113000.	-50.65	878.2
7	S95T000848	301.8	157.8	5.429	105500.	10.64	896.5
8	S95T000848_D	370.3	165.2	6.732	101400.	11.51	753.8
9	S95T000848_A	5264.	5384.	5475.	109100.	5045.	6332.
10	CCV	5.131	5.187	5.253	5.111	5.342	5.219
11	CCB	-.0089	.0000	.0004	-.0054	-.0036	.0009
12	S95T000851_L	-131.4	125.0	-74.75	106300.	-131.8	1211.
13	S95T000851	337.8	132.2	9.917	103200.	5.940	1134.
14	S95T000851_D	232.9	121.7	-15.26	100500.	-8.333	1203.
15	S95T000851_A	4663.	4663.	4767.	104000.	4645.	5801.
16	ICSA	251.9	-.0071	-.0127	194.5	.0145	-.0103
17	ICSAB	251.4	.4431	-.0162	195.8	.0164	.9108
18	CCV_1	5.154	5.044	5.118	5.278	5.431	5.106
19	CCB_1	-.0008	-.0000	-.0002	-.0036	-.0029	.0096

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.187	5.250	5.153	4.906	5.282	4.705
2	ICB	.0293	.0110	-.0057	-.0026	-.0009	.0014
3	ICSA	.0806	.0367	.0115	.0030	.0881	.0292
4	ICSAB	.0910	.9941	.0220	-.0032	.0956	.0305
5	PREPBLKTJA	.3875	.4329	-.0257	.0264	-2.704	.7803
6	S95T000848_L	19780.	1686.	6404.	45.10	-386.9	737.4
7	S95T000848	19830.	970.9	6592.	-23.39	-854.1	932.0
8	S95T000848_D	19280.	1080.	6391.	-37.64	-1065.	976.2
9	S95T000848_A	24800.	6568.	11730.	5074.	4599.	6032.
10	CCV	5.279	5.266	5.209	4.938	5.328	4.871
11	CCB	.0089	-.0094	-.0096	.0070	-.0044	.0042
12	S95T000851_L	17270.	-131.8	5862.	-242.0	-1500.	341.6
13	S95T000851	17340.	443.0	5971.	2.165	-1325.	743.1
14	S95T000851_D	17690.	539.8	5979.	-27.52	-1180.	784.2
15	S95T000851_A	22340.	5385.	10710.	4447.	3518.	5371.

WHC-SD-WM-DP-154, REV. 0

BEST AVAILABLE COPY

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	.0713	.0233	.0187	-.0100	.0899	.0239
17	ICSAB	.0790	.9499	.0233	.0010	.0612	.0236
18	CCV_1	5.158	5.069	5.117	4.868	5.297	4.788
19	CCB_1	.0014	-.0258	-.0045	.0089	-.0371	-.0043

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.197	5.095	-.0184	5.018	5.104	10.17
2	ICB	-.0052	.0000	-.0016	-.0002	.0212	-.0153
3	ICSA	-.0148	-.0045	-.0254	.0009	.0403	.0489
4	ICSAB	-.0122	-.0045	-.0200	.0009	.0497	.0567
5	PREPBLKTJA	.1059	.0053	.1845	.0660	-.0060	-3.414
6	S95T000848_L	258.7	819.6	102.2	-22.41	-78.55	26240.
7	S95T000848_	124.0	766.0	84.21	27.53	128.1	23680.
8	S95T000848_D	186.2	759.5	61.91	147.7	-14.20	22690.
9	S95T000848_A	5028.	5631.	48.83	5027.	5212.	33020.
10	CCV	5.221	5.107	-.0472	5.055	5.185	10.27
11	CCB	-.0072	.0000	.0081	-.0007	.0070	-.0255
12	S95T000851_L	-522.3	691.3	79.98	88.36	753.7	21620.
13	S95T000851_	-70.78	679.8	95.79	129.9	191.8	21950.
14	S95T000851_D	36.69	660.9	9.971	31.58	-13.80	22390.
15	S95T000851_A	4556.	5145.	47.04	4627.	4597.	30610.
16	ICSA	-.0168	-.0035	-.0134	-.0005	.0592	.1753
17	ICSAB	-.0191	-.0039	-.0130	-.0002	.0917	.1582
18	CCV_1	5.315	5.175	-.0398	5.049	5.033	10.43
19	CCB_1	-.0203	.0000	.0072	-.0009	.0044	-.0562

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.978	.0125	5.197	5.102
2	ICB	-.0013	-.0003	.0012	.0001
3	ICSA	-.0011	.0164	-.0252	.0004
4	ICSAB	.4638	.0165	.9429	-.0001
5	PREPBLKTJA	.0298	.0063	.0226	.0973
6	S95T000848_L	77.91	32.52	432.8	68.37
7	S95T000848_	41.20	21.14	230.5	18.38
8	S95T000848_D	57.50	25.26	210.2	28.19
9	S95T000848_A	5161.	35.37	5678.	5102.
10	CCV	5.020	.0129	5.253	5.145
11	CCB	-.0016	-.0004	.0000	-.0006
12	S95T000851_L	-77.76	-11.29	223.6	-37.42
13	S95T000851_	-9.294	8.278	173.6	-11.26
14	S95T000851_D	17.98	14.71	169.6	11.47
15	S95T000851_A	4528.	24.83	4904.	4566.
16	ICSA	-.0024	.0165	-.0269	-.0009
17	ICSAB	.4623	.0160	.9279	-.0035
18	CCV_1	4.953	.0117	5.098	5.126
19	CCB_1	-.0033	-.0010	.0002	-.0014

WHC-SD-WM-DP-154, REV.0

BEST AVAILABLE COPY

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1310	2			ICV	AG				5.1044		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
2	1310	2			ICV	AL				5.1201		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
3	1310	2			ICV	AS				5.3047		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
4	1310	2			ICV	B				5.0886		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
5	1310	2			ICV	BA				5.1013		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
6	1310	2			ICV	BE				5.3398		1.0000	05/25/95	12:58	blg	0.005	@ICP-QC			
7	1310	2			ICV	BI				5.1944		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
8	1310	2			ICV	CA				5.2208		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
9	1310	2			ICV	CD				5.2488		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
10	1310	2			ICV	CE				5.1817		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
11	1310	2			ICV	CO				5.1933		1.0000	05/25/95	12:58	blg	0.02	@ICP-QC			
12	1310	2			ICV	CR				5.2458		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
13	1310	2			ICV	CU				5.1448		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
14	1310	2			ICV	EU				0.0096		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
15	1310	2			ICV	FE				5.2384		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
16	1310	2			ICV	K				4.9449		1.0000	05/25/95	12:58	blg	0.3	@ICP-QC			
17	1310	2			ICV	LA				5.1792		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
18	1310	2			ICV	LI				5.1347		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
19	1310	2			ICV	MG				5.1215		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
20	1310	2			ICV	MN				5.1236		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
21	1310	2			ICV	MO				5.1958		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
22	1310	2			ICV	NA				5.0785		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
23	1310	2			ICV	ND				5.3231		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
24	1310	2			ICV	NI				5.1951		1.0000	05/25/95	12:58	blg	0.02	@ICP-QC			
25	1310	2			ICV	P				5.1807		1.0000	05/25/95	12:58	blg	0.2	@ICP-QC			
26	1310	2			ICV	PB				5.2504		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
27	1310	2			ICV	S				5.1531		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
28	1310	2			ICV	SB				4.9059		1.0000	05/25/95	12:58	blg	0.2	@ICP-QC			
29	1310	2			ICV	SE				5.2816		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
30	1310	2			ICV	SI				4.7049		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
31	1310	2			ICV	SM				5.1986		1.0000	05/25/95	12:58	blg	0.1	@ICP-QC			
32	1310	2			ICV	SR				5.0954		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
33	1310	2			ICV	TH				-0.0184		1.0000	05/25/95	12:58	blg	0	@ICP-QC			
34	1310	2			ICV	TI				5.0182		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
35	1310	2			ICV	TL				5.1043		1.0000	05/25/95	12:58	blg	0.2	@ICP-QC			
36	1310	2			ICV	U				10.1655		1.0000	05/25/95	12:58	blg	0.4	@ICP-QC			
37	1310	2			ICV	V				4.9785		1.0000	05/25/95	12:58	blg	0.05	@ICP-QC			
38	1310	2			ICV	Y				0.0125		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
39	1310	2			ICV	ZN				5.1968		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
40	1310	2			ICV	ZR				5.1021		1.0000	05/25/95	12:58	blg	0.01	@ICP-QC			
41	1310	3			ICB	AG				-0.0003		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
42	1310	3			ICB	AL				-0.0000		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
43	1310	3			ICB	AS				0.0079		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
44	1310	3			ICB	B				0.0065		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
45	1310	3			ICB	BA				0.0000		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
46	1310	3			ICB	BE				0.0002		1.0000	05/25/95	13:02	blg	0.005	@ICP-QC			
47	1310	3			ICB	BI				0.0186		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
48	1310	3			ICB	CA				-0.0038		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
49	1310	3			ICB	CD				0.0002		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
50	1310	3			ICB	CE				-0.0021		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
51	1310	3			ICB	CO				0.0011		1.0000	05/25/95	13:02	blg	0.02	@ICP-QC			
52	1310	3			ICB	CR				0.0004		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
53	1310	3			ICB	CU				0.0004		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
54	1310	3			ICB	EU				-0.0006		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
55	1310	3			ICB	FE				-0.0008		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
56	1310	3			ICB	K				-0.2212		1.0000	05/25/95	13:02	blg	0.3	@ICP-QC			
57	1310	3			ICB	LA				-0.0004		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
58	1310	3			ICB	LI				-0.0003		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
59	1310	3			ICB	MG				-0.0013		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
60	1310	3			ICB	MN				0.0002		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
61	1310	3			ICB	MO				0.0029		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
62	1310	3			ICB	NA				-0.0018		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
63	1310	3			ICB	ND				-0.0011		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
64	1310	3			ICB	NI				0.0028		1.0000	05/25/95	13:02	blg	0.02	@ICP-QC			
65	1310	3			ICB	P				0.0293		1.0000	05/25/95	13:02	blg	0.2	@ICP-QC			
66	1310	3			ICB	PB				0.0110		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
67	1310	3			ICB	S				-0.0057		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
68	1310	3			ICB	SB				-0.0026		1.0000	05/25/95	13:02	blg	0.2	@ICP-QC			
69	1310	3			ICB	SE				-0.0009		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
70	1310	3			ICB	SI				0.0014		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
71	1310	3			ICB	SM				-0.0052		1.0000	05/25/95	13:02	blg	0.1	@ICP-QC			
72	1310	3			ICB	SR				0.0000		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
73	1310	3			ICB	TH				-0.0016		1.0000	05/25/95	13:02	blg	0	@ICP-QC			
74	1310	3			ICB	TI				-0.0002		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
75	1310	3			ICB	TL				0.0212		1.0000	05/25/95	13:02	blg	0.2	@ICP-QC			
76	1310	3			ICB	U				-0.0153		1.0000	05/25/95	13:02	blg	0.4	@ICP-QC			
77	1310	3			ICB	V				-0.0013		1.0000	05/25/95	13:02	blg	0.05	@ICP-QC			
78	1310	3			ICB	Y				-0.0003		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
79	1310	3			ICB	ZN				0.0012		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
80	1310	3			ICB	ZR				0.0001		1.0000	05/25/95	13:02	blg	0.01	@ICP-QC			
81	1310	4			ICSA	AG				-0.0015		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
82	1310	4			ICSA	AL				245.3463		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
83	1310	4			ICSA	AS				0.0163		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
84	1310	4			ICSA	B				0.0099		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
85	1310	4			ICSA	BA				0.0034		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
86	1310	4			ICSA	BE				-0.0001		1.0000	05/25/95	13:05	blg	0.005	@ICP-QC			
87	1310	4			ICSA	BI				0.0221		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
88	1310	4			ICSA	CA				247.7052		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
89	1310	4			ICSA	CD				-0.0003		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
90	1310	4			ICSA	CE				0.0001		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
91	1310	4			ICSA	CO				-0.0017		1.0000	05/25/95	13:05	blg	0.02	@ICP-QC			
92	1310	4			ICSA	CR				-0.0059		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
93	1310	4			ICSA	CU				-0.0075		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
94	1310	4			ICSA	EU				0.0197		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
95	1310	4			ICSA	FE				92.7723		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
96	1310	4			ICSA	K				-0.1475		1.0000	05/25/95	13:05	blg	0.3	@ICP-QC			
97	1310	4			ICSA	LA				-0.0043		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
98	1310	4			ICSA	LI				0.0015		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
99	1310	4			ICSA	MG				250.8468		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
100	1310	4			ICSA	MN				-0.0080		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
101	1310	4			ICSA	MO				-0.0119		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
102	1310	4			ICSA	NA				193.2174		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
103	1310	4			ICSA	ND				0.0135		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
104	1310	4			ICSA	NI				-0.0224		1.0000	05/25/95	13:05	blg	0.02	@ICP-QC			
105	1310	4			ICSA	P				0.0606		1.0000	05/25/95	13:05	blg	0.2	@ICP-QC			
106	1310	4			ICSA	PB				0.0367		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
107	1310	4			ICSA	S				0.0115		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
108	1310	4			ICSA	SB				0.0030		1.0000	05/25/95	13:05	blg	0.2	@ICP-QC			
109	1310	4			ICSA	SE				0.0881		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
110	1310	4			ICSA	SI				0.0292		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
111	1310	4			ICSA	SM				-0.0148		1.0000	05/25/95	13:05	blg	0.1	@ICP-QC			
112	1310	4			ICSA	SR				-0.0045		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
113	1310	4			ICSA	TH				-0.0254		1.0000	05/25/95	13:05	blg	0	@ICP-QC			
114	1310	4			ICSA	TI				0.0009		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
115	1310	4			ICSA	TL				0.0403		1.0000	05/25/95	13:05	blg	0.2	@ICP-QC			
116	1310	4			ICSA	U				0.0489		1.0000	05/25/95	13:05	blg	0.4	@ICP-QC			
117	1310	4			ICSA	V				-0.0011		1.0000	05/25/95	13:05	blg	0.05	@ICP-QC			
118	1310	4			ICSA	Y				0.0184		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
119	1310	4			ICSA	ZN				-0.0252		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
120	1310	4			ICSA	ZR				0.0004		1.0000	05/25/95	13:05	blg	0.01	@ICP-QC			
121	1310	5			ICSAB	AG				0.9696		1.0000	05/25/95	13:09	blg	0.01	@ICP-QC			
122	1310	5			ICSAB	AL				243.8087		1.0000	05/25/95	13:09	blg	0.05	@ICP-QC			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1310	2			ICV	AG				5.1044		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
2	1310	2			ICV	AL				5.1201		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
3	1310	2			ICV	AS				5.3047		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
4	1310	2			ICV	B				5.0886		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
5	1310	2			ICV	BA				5.1013		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
6	1310	2			ICV	BE				5.3398		1.0000	05/25/95	12:58	bjg	0.005	@ICP-QC			
7	1310	2			ICV	BI				5.1044		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
8	1310	2			ICV	CA				5.2208		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
9	1310	2			ICV	CD				5.2468		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
10	1310	2			ICV	CE				5.1817		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
11	1310	2			ICV	CO				5.1933		1.0000	05/25/95	12:58	bjg	0.02	@ICP-QC			
12	1310	2			ICV	CR				5.2456		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
13	1310	2			ICV	CU				5.1448		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
14	1310	2			ICV	EU				0.0096		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
15	1310	2			ICV	FE				5.2384		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
16	1310	2			ICV	K				4.8449		1.0000	05/25/95	12:58	bjg	0.3	@ICP-QC			
17	1310	2			ICV	LA				5.1792		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
18	1310	2			ICV	LI				5.1347		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
19	1310	2			ICV	MG				5.1215		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
20	1310	2			ICV	MN				5.1236		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
21	1310	2			ICV	MO				5.1958		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
22	1310	2			ICV	NA				5.0785		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
23	1310	2			ICV	ND				5.3231		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
24	1310	2			ICV	NI				5.1091		1.0000	05/25/95	12:58	bjg	0.02	@ICP-QC			
25	1310	2			ICV	P				5.1967		1.0000	05/25/95	12:58	bjg	0.2	@ICP-QC			
26	1310	2			ICV	PB				5.2504		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
27	1310	2			ICV	S				5.1531		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
28	1310	2			ICV	SB				4.9059		1.0000	05/25/95	12:58	bjg	0.2	@ICP-QC			
29	1310	2			ICV	SE				5.2816		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
30	1310	2			ICV	SI				4.7049		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
31	1310	2			ICV	SM				5.1966		1.0000	05/25/95	12:58	bjg	0.1	@ICP-QC			
32	1310	2			ICV	SR				5.0954		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
33	1310	2			ICV	TH				-0.0184		1.0000	05/25/95	12:58	bjg	0	@ICP-QC			
34	1310	2			ICV	TI				5.0182		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
35	1310	2			ICV	TL				5.1043		1.0000	05/25/95	12:58	bjg	0.2	@ICP-QC			
36	1310	2			ICV	U				10.1655		1.0000	05/25/95	12:58	bjg	0.4	@ICP-QC			
37	1310	2			ICV	V				4.9785		1.0000	05/25/95	12:58	bjg	0.05	@ICP-QC			
38	1310	2			ICV	Y				0.0125		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
39	1310	2			ICV	ZN				5.1958		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
40	1310	2			ICV	ZR				5.1021		1.0000	05/25/95	12:58	bjg	0.01	@ICP-QC			
41	1310	3			ICB	AG				-0.0003		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
42	1310	3			ICB	AL				-0.0000		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
43	1310	3			ICB	AS				0.0079		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
44	1310	3			ICB	B				0.0065		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
45	1310	3			ICB	BA				0.0000		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
46	1310	3			ICB	BE				0.0002		1.0000	05/25/95	13:02	bjg	0.005	@ICP-QC			
47	1310	3			ICB	BI				0.0186		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
48	1310	3			ICB	CA				-0.0038		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
49	1310	3			ICB	CD				0.0002		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
50	1310	3			ICB	CE				-0.0021		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
51	1310	3			ICB	CO				0.0011		1.0000	05/25/95	13:02	bjg	0.02	@ICP-QC			
52	1310	3			ICB	CR				0.0004		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
53	1310	3			ICB	CU				0.0004		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
54	1310	3			ICB	EU				-0.0006		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
55	1310	3			ICB	FE				-0.0008		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
56	1310	3			ICB	K				-0.2212		1.0000	05/25/95	13:02	bjg	0.3	@ICP-QC			
57	1310	3			ICB	LA				-0.0004		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
58	1310	3			ICB	LI				-0.0003		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
59	1310	3			ICB	MG				-0.0013		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
60	1310	3			ICB	MN				0.0002		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
61	1310	3			ICB	MO				0.0029		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
62	1310	3			ICB	NA				-0.0016		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
63	1310	3			ICB	ND				-0.0011		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
64	1310	3			ICB	NI				0.0026		1.0000	05/25/95	13:02	bjg	0.02	@ICP-QC			
65	1310	3			ICB	P				0.0293		1.0000	05/25/95	13:02	bjg	0.2	@ICP-QC			
66	1310	3			ICB	PB				0.0110		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
67	1310	3			ICB	S				-0.0057		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
68	1310	3			ICB	SB				-0.0026		1.0000	05/25/95	13:02	bjg	0.2	@ICP-QC			
69	1310	3			ICB	SE				-0.0009		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
70	1310	3			ICB	SI				0.0014		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
71	1310	3			ICB	SM				-0.0052		1.0000	05/25/95	13:02	bjg	0.1	@ICP-QC			
72	1310	3			ICB	SR				0.0000		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
73	1310	3			ICB	TH				-0.0018		1.0000	05/25/95	13:02	bjg	0	@ICP-QC			
74	1310	3			ICB	TI				-0.0002		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
75	1310	3			ICB	TL				0.0212		1.0000	05/25/95	13:02	bjg	0.2	@ICP-QC			
76	1310	3			ICB	U				-0.0153		1.0000	05/25/95	13:02	bjg	0.4	@ICP-QC			
77	1310	3			ICB	V				-0.0013		1.0000	05/25/95	13:02	bjg	0.05	@ICP-QC			
78	1310	3			ICB	Y				-0.0003		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
79	1310	3			ICB	ZN				0.0012		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
80	1310	3			ICB	ZR				0.0001		1.0000	05/25/95	13:02	bjg	0.01	@ICP-QC			
81	1310	4			ICSA	AG				-0.0015		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
82	1310	4			ICSA	AL				245.3483		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
83	1310	4			ICSA	AS				0.0163		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
84	1310	4			ICSA	B				0.0099		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
85	1310	4			ICSA	BA				0.0034		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
86	1310	4			ICSA	BE				-0.0001		1.0000	05/25/95	13:05	bjg	0.005	@ICP-QC			
87	1310	4			ICSA	BI				0.0221		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
88	1310	4			ICSA	CA				247.7052		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
89	1310	4			ICSA	CD				-0.0003		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
90	1310	4			ICSA	CE				0.0001		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
91	1310	4			ICSA	CO				-0.0017		1.0000	05/25/95	13:05	bjg	0.02	@ICP-QC			
92	1310	4			ICSA	CR				-0.0059		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
93	1310	4			ICSA	CU				-0.0075		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
94	1310	4			ICSA	EU				0.0197		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
95	1310	4			ICSA	FE				92.7723		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
96	1310	4			ICSA	K				-0.1475		1.0000	05/25/95	13:05	bjg	0.3	@ICP-QC			
97	1310	4			ICSA	LA				-0.0043		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
98	1310	4			ICSA	LI				0.0015		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
99	1310	4			ICSA	MG				250.6468		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
100	1310	4			ICSA	MN				-0.0060		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
101	1310	4			ICSA	MO				-0.0119		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
102	1310	4			ICSA	NA				193.2174		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
103	1310	4			ICSA	ND				0.0135		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
104	1310	4			ICSA	NI				-0.0224		1.0000	05/25/95	13:05	bjg	0.02	@ICP-QC			
105	1310	4			ICSA	P				0.0806		1.0000	05/25/95	13:05	bjg	0.2	@ICP-QC			
106	1310	4			ICSA	PB				0.0367		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
107	1310	4			ICSA	S				0.0115		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
108	1310	4			ICSA	SB				0.0030		1.0000	05/25/95	13:05	bjg	0.2	@ICP-QC			
109	1310	4			ICSA	SE				0.0081		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
110	1310	4			ICSA	SI				0.0292		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
111	1310	4			ICSA	SM				-0.0148		1.0000	05/25/95	13:05	bjg	0.1	@ICP-QC			
112	1310	4			ICSA	SR				-0.0045		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
113	1310	4			ICSA	TH				-0.0254		1.0000	05/25/95	13:05	bjg	0	@ICP-QC			
114	1310	4			ICSA	TI				0.0009		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
115	1310	4			ICSA	TL				0.0403		1.0000	05/25/95	13:05	bjg	0.2	@ICP-QC			
116	1310	4			ICSA	U				0.0489		1.0000	05/25/95	13:05	bjg	0.4	@ICP-QC			
117	1310	4			ICSA	V				-0.0011		1.0000	05/25/95	13:05	bjg	0.05	@ICP-QC			
118	1310	4			ICSA	Y				0.0184		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
119	1310	4			ICSA	ZN				-0.0252		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
120	1310	4			ICSA	ZR				0.0004		1.0000	05/25/95	13:05	bjg	0.01	@ICP-QC			
121	1310	5			ICSAB	AG				0.9696		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
122	1310	5			ICSAB	AL				243.8067		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
123	1310	5			ICSAB	AS				0.0429		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
124	1310	5			ICSAB	B				0.0062		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
125	1310	5			ICSAB	BA				0.4848		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
126	1310	5			ICSAB	BE				0.4755		1.0000	05/25/95	13:09	bjg	0.005	@ICP-QC			
127	1310	5			ICSAB	BI				0.0360		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
128	1310	5			ICSAB	CA				247.6309		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
129	1310	5			ICSAB	CD				0.9423		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
130	1310	5			ICSAB	CE				0.0092		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
131	1310	5			ICSAB	CO				0.4509		1.0000	05/25/95	13:09	bjg	0.02	@ICP-QC			
132	1310	5			ICSAB	CR				0.4836		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
133	1310	5			ICSAB	CU				0.4801		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
134	1310	5			ICSAB	EU				0.0190		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
135	1310	5			ICSAB	FE				91.9683		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
136	1310	5			ICSAB	K				-0.0454		1.0000	05/25/95	13:09	bjg	0.3	@ICP-QC			
137	1310	5			ICSAB	LA				-0.0026		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
138	1310	5			ICSAB	LI				0.9877		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
139	1310	5			ICSAB	MG				248.5250		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
140	1310	5			ICSAB	MN				0.4486		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
141	1310	5			ICSAB	MO				-0.0152		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
142	1310	5			ICSAB	NA				191.8919		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
143	1310	5			ICSAB	ND				0.0143		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
144	1310	5			ICSAB	NI				0.9129		1.0000	05/25/95	13:09	bjg	0.02	@ICP-QC			
145	1310	5			ICSAB	P				0.0910		1.0000	05/25/95	13:09	bjg	0.2	@ICP-QC			
146	1310	5			ICSAB	PB				0.9941		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
147	1310	5			ICSAB	S				0.0220		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
148	1310	5			ICSAB	SB				-0.0032		1.0000	05/25/95	13:09	bjg	0.2	@ICP-QC			
149	1310	5			ICSAB	SE				0.0956		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
150	1310	5			ICSAB	SI				0.0305		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
151	1310	5			ICSAB	SM				-0.0122		1.0000	05/25/95	13:09	bjg	0.1	@ICP-QC			
152	1310	5			ICSAB	SR				-0.0045		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
153	1310	5			ICSAB	TH				-0.0200		1.0000	05/25/95	13:09	bjg	0	@ICP-QC			
154	1310	5			ICSAB	TI				0.0009		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
155	1310	5			ICSAB	TL				0.0497		1.0000	05/25/95	13:09	bjg	0.2	@ICP-QC			
156	1310	5			ICSAB	U				0.0567		1.0000	05/25/95	13:09	bjg	0.4	@ICP-QC			
157	1310	5			ICSAB	V				0.4838		1.0000	05/25/95	13:09	bjg	0.05	@ICP-QC			
158	1310	5			ICSAB	Y				0.0165		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
159	1310	5			ICSAB	ZN				0.9429		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
160	1310	5			ICSAB	ZR				-0.0001		1.0000	05/25/95	13:09	bjg	0.01	@ICP-QC			
161	1310	6			PREPBLKTJA	AG-F-01				-0.0028		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
162	1310	6			PREPBLKTJA	AL-F-01				0.1245		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
163	1310	6			PREPBLKTJA	AS-F-01				0.0886		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
164	1310	6			PREPBLKTJA	B-F-01				0.0847		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
165	1310	6			PREPBLKTJA	BA-F-01				0.0252		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
166	1310	6			PREPBLKTJA	BE-F-01				-0.0016		10.0000	05/25/95	13:13	bjg	0.005	@ICP-F01			
167	1310	6			PREPBLKTJA	BI-F-01				-9.9873		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
168	1310	6			PREPBLKTJA	CA-F-01				0.6905		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
169	1310	6			PREPBLKTJA	CD-F-01				0.0044		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
170	1310	6			PREPBLKTJA	CE-F-01				-0.0109		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
171	1310	6			PREPBLKTJA	CO-F-01				0.0100		10.0000	05/25/95	13:13	bjg	0.02	@ICP-F01			
172	1310	6			PREPBLKTJA	CR-F-01				0.0103		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
173	1310	6			PREPBLKTJA	CU-F-01				0.0216		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
174	1310	6			PREPBLKTJA	EU-F-01				0.0176		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
175	1310	6			PREPBLKTJA	FE-F-01				0.0781		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
176	1310	6			PREPBLKTJA	K-F-01				14287.3389		10.0000	05/25/95	13:13	bjg	0.3	@ICP-F01			
177	1310	6			PREPBLKTJA	LA-F-01				-0.0068		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
178	1310	6			PREPBLKTJA	LI-F-01				0.0095		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
179	1310	6			PREPBLKTJA	MG-F-01				0.1566		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
180	1310	6			PREPBLKTJA	MN-F-01				0.0676		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
181	1310	6			PREPBLKTJA	MO-F-01				0.0018		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
182	1310	6			PREPBLKTJA	NA-F-01				5.1362		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
183	1310	6			PREPBLKTJA	ND-F-01				-0.0051		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
184	1310	6			PREPBLKTJA	NI-F-01				3.3392		10.0000	05/25/95	13:13	bjg	0.02	@ICP-F01			
185	1310	6			PREPBLKTJA	P-F-01				0.3875		10.0000	05/25/95	13:13	bjg	0.2	@ICP-F01			
186	1310	6			PREPBLKTJA	PB-F-01				0.4329		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
187	1310	6			PREPBLKTJA	S-F-01				-0.0257		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
188	1310	6			PREPBLKTJA	SB-F-01				0.0264		10.0000	05/25/95	13:13	bjg	0.2	@ICP-F01			
189	1310	6			PREPBLKTJA	SE-F-01				-2.7036		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
190	1310	6			PREPBLKTJA	SI-F-01				0.7803		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
191	1310	6			PREPBLKTJA	SM-F-01				0.1059		10.0000	05/25/95	13:13	bjg	0.1	@ICP-F01			
192	1310	6			PREPBLKTJA	SR-F-01				0.0053		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
193	1310	6			PREPBLKTJA	TH-F-01				0.1845		10.0000	05/25/95	13:13	bjg	0	@ICP-F01			
194	1310	6			PREPBLKTJA	TI-F-01				0.0660		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
195	1310	6			PREPBLKTJA	TL-F-01				-0.0060		10.0000	05/25/95	13:13	bjg	0.2	@ICP-F01			
196	1310	6			PREPBLKTJA	U-F-01				-3.4139		10.0000	05/25/95	13:13	bjg	0.4	@ICP-F01			
197	1310	6			PREPBLKTJA	V-F-01				0.0298		10.0000	05/25/95	13:13	bjg	0.05	@ICP-F01			
198	1310	6			PREPBLKTJA	Y-F-01				0.0063		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
199	1310	6			PREPBLKTJA	ZN-F-01				0.0226		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
200	1310	6			PREPBLKTJA	ZR-F-01				0.0973		10.0000	05/25/95	13:13	bjg	0.01	@ICP-F01			
201	1310	7	S95T000848			AG-F-01			<	51.8800		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
202	1310	7	S95T000848			AL-F-01				553.4983		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
203	1310	7	S95T000848			AS-F-01			<	259.4000		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
204	1310	7	S95T000848			B-F-01			<	259.4000		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
205	1310	7	S95T000848			BA-F-01			<	259.4000		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
206	1310	7	S95T000848			BE-F-01			<	25.9400		5188.0000	05/25/95	13:22	bjg	0.005	@ICP-F01			
207	1310	7	S95T000848			BI-F-01			<	518.8000		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
208	1310	7	S95T000848			CA-F-01				1221.8438		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
209	1310	7	S95T000848			CD-F-01			<	51.8800		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
210	1310	7	S95T000848			CE-F-01			<	518.8000		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
211	1310	7	S95T000848			CO-F-01			<	103.7600		5188.0000	05/25/95	13:22	bjg	0.02	@ICP-F01			
212	1310	7	S95T000848		O	CR-F-01				216.3937		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
213	1310	7	S95T000848			CU-F-01			<	51.8800		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
214	1310	7	S95T000848			FE-F-01				23543.5586		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
215	1310	7	S95T000848			K-F-01				5805932.5000		5188.0000	05/25/95	13:22	bjg	0.3	@ICP-F01			
216	1310	7	S95T000848			LA-F-01			<	259.4000		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
217	1310	7	S95T000848			LI-F-01			<	51.8800		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
218	1310	7	S95T000848			MG-F-01			<	518.8000		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
219	1310	7	S95T000848			MN-F-01				157.7561		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
220	1310	7	S95T000848			MO-F-01			<	259.4000		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
221	1310	7	S95T000848			NA-F-01				105530.3281		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
222	1310	7	S95T000848			ND-F-01			<	518.8000		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
223	1310	7	S95T000848			NI-F-01				896.4921		5188.0000	05/25/95	13:22	bjg	0.02	@ICP-F01			
224	1310	7	S95T000848			P-F-01				19833.7188		5188.0000	05/25/95	13:22	bjg	0.2	@ICP-F01			
225	1310	7	S95T000848			PB-F-01				970.9299		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
226	1310	7	S95T000848			S-F-01				6592.3149		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
227	1310	7	S95T000848			SB-F-01			<	1037.6000		5188.0000	05/25/95	13:22	bjg	0.2	@ICP-F01			
228	1310	7	S95T000848			SE-F-01			<	518.8000		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
229	1310	7	S95T000848			SI-F-01				932.0094		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
230	1310	7	S95T000848			SM-F-01			<	518.8000		5188.0000	05/25/95	13:22	bjg	0.1	@ICP-F01			
231	1310	7	S95T000848			SR-F-01				765.9883		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
232	1310	7	S95T000848			TH-F-01		569		51.8800		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
233	1310	7	S95T000848			TL-F-01				1037.6000		5188.0000	05/25/95	13:22	bjg	0.2	@ICP-F01			
234	1310	7	S95T000848			U-F-01				23680.5508		5188.0000	05/25/95	13:22	bjg	0.4	@ICP-F01			
235	1310	7	S95T000848			V-F-01			<	259.4000		5188.0000	05/25/95	13:22	bjg	0.05	@ICP-F01			
236	1310	7	S95T000848			ZN-F-01				230.4908		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
237	1310	7	S95T000848			ZR-F-01			<	51.8800		5188.0000	05/25/95	13:22	bjg	0.01	@ICP-F01			
238	1310	8	S95T000848		DUP	AG-F-01		<51.8800		<52.6400		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
239	1310	8	S95T000848		DUP	AL-F-01		553.4983		523.5494		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
240	1310	8	S95T000848		DUP	AS-F-01		<259.4000		<264.2000		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
241	1310	8	S95T000848		DUP	B-F-01		<259.4000		<264.2000		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
242	1310	8	S95T000848		DUP	BA-F-01		<259.4000		<264.2000		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
243	1310	8	S95T000848		DUP	BE-F-01		<25.9400		<26.4200		5284.0000	05/25/95	13:26	bjg	0.005	@ICP-F01			
244	1310	8	S95T000848		DUP	BI-F-01		<518.8000		<528.4000		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			

WHC-SD-WM-DP-154, REV. 0

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
345	1310		8 S95T000648		DUP	CA-F-01		1221.8438		1405.4205		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
346	1310		8 S95T000648		DUP	CD-F-01		<51.8800		<52.8400		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
347	1310		8 S95T000648		DUP	CE-F-01		<518.8000		<528.4000		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
348	1310		8 S95T000648		DUP	CO-F-01		<103.7600		<105.6800		5284.0000	05/25/95	13:26	bjg	0.02	@ICP-F01			
349	1310		8 S95T000648		DUP	CR-F-01		216.3937		211.4342		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
350	1310		8 S95T000648		DUP	CU-F-01		<51.8800		<52.8400		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
351	1310		8 S95T000648		DUP	FE-F-01		23543.5586		23048.6934		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
352	1310		8 S95T000648		DUP	K-F-01		5805932.5000		7092552.5000		5284.0000	05/25/95	13:26	bjg	0.3	@ICP-F01			
353	1310		8 S95T000648		DUP	LA-F-01		<256.4000		<264.2000		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
354	1310		8 S95T000648		DUP	LI-F-01		<51.8800		<52.8400		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
355	1310		8 S95T000648		DUP	MG-F-01		<518.8000		<528.4000		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
356	1310		8 S95T000648		DUP	MN-F-01		187.7561		185.2132		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
357	1310		8 S95T000648		DUP	MO-F-01		<259.4000		<264.2000		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
358	1310		8 S95T000648		DUP	NA-F-01		105530.3281		101422.0313		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
359	1310		8 S95T000648		DUP	ND-F-01		<518.8000		<528.4000		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
360	1310		8 S95T000648		DUP	NI-F-01		866.4921		753.8250		5284.0000	05/25/95	13:26	bjg	0.02	@ICP-F01			
361	1310		8 S95T000648		DUP	P-F-01		19833.7188		19282.9199		5284.0000	05/25/95	13:26	bjg	0.2	@ICP-F01			
362	1310		8 S95T000648		DUP	PB-F-01		970.9299		1080.3084		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
363	1310		8 S95T000648		DUP	S-F-01		6592.3149		6391.0132		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
364	1310		8 S95T000648		DUP	SB-F-01		<1037.6000		<1056.8000		5284.0000	05/25/95	13:26	bjg	0.2	@ICP-F01			
365	1310		8 S95T000648		DUP	SE-F-01		<518.8000		<528.4000		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
366	1310		8 S95T000648		DUP	SI-F-01		932.0094		976.1901		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
367	1310		8 S95T000648		DUP	SM-F-01		<518.8000		<528.4000		5284.0000	05/25/95	13:26	bjg	0.1	@ICP-F01			
368	1310		8 S95T000648		DUP	SR-F-01		765.9863		759.4763		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
369	1310		8 S95T000648		DUP	TI-F-01		<51.8800		147.6836		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
370	1310		8 S95T000648		DUP	TL-F-01		<1037.6000		<1056.8000		5284.0000	05/25/95	13:26	bjg	0.2	@ICP-F01			
371	1310		8 S95T000648		DUP	U-F-01		23680.5508		22990.8672		5284.0000	05/25/95	13:26	bjg	0.4	@ICP-F01			
372	1310		8 S95T000648		DUP	V-F-01		<259.4000		<264.2000		5284.0000	05/25/95	13:26	bjg	0.05	@ICP-F01			
373	1310		8 S95T000648		DUP	ZN-F-01		230.4908		210.2133		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
374	1310		8 S95T000648		DUP	ZR-F-01		<51.8800		<52.8400		5284.0000	05/25/95	13:26	bjg	0.01	@ICP-F01			
375	1310		9 S95T000648_A			AG-F-01		5188		4522.6270		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
376	1310		9 S95T000648_A			AL-F-01		5188		5018.4100		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
377	1310		9 S95T000648_A			AS-F-01		5188		5602.7046		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
378	1310		9 S95T000648_A			B-F-01		5188		5044.7998		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
379	1310		9 S95T000648_A			BA-F-01		5188		4836.8994		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
380	1310		9 S95T000648_A			BE-F-01		5188		5277.8431		5188.0000	05/25/95	13:30	bjg	0.005	@ICP-F01			
381	1310		9 S95T000648_A			BI-F-01		5188		1935.3654		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
382	1310		9 S95T000648_A			CA-F-01		5188		5496.0800		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
383	1310		9 S95T000648_A			CD-F-01		5188		5510.7959		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
384	1310		9 S95T000648_A			CE-F-01		5188		4939.6553		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
385	1310		9 S95T000648_A			CO-F-01		5188		5395.3486		5188.0000	05/25/95	13:30	bjg	0.02	@ICP-F01			
386	1310		9 S95T000648_A			CR-F-01		5188		5540.7900		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
387	1310		9 S95T000648_A			CU-F-01		5188		4913.8184		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
388	1310		9 S95T000648_A			FE-F-01		5188		5420.4400		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
389	1310		9 S95T000648_A			K-F-01		0		5756154.5000		5188.0000	05/25/95	13:30	bjg	0.3	@ICP-F01			
390	1310		9 S95T000648_A			LA-F-01		5188		4848.4170		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
391	1310		9 S95T000648_A			LI-F-01		5188		4617.7183		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
392	1310		9 S95T000648_A			MG-F-01		5188		5264.3013		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
393	1310		9 S95T000648_A			MN-F-01		5188		5364.3062		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
394	1310		9 S95T000648_A			MO-F-01		5188		5475.2104		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
395	1310		9 S95T000648_A			NA-F-01		0		109138.5563		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
396	1310		9 S95T000648_A			ND-F-01		5188		5044.6060		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
397	1310		9 S95T000648_A			NI-F-01		5188		5435.9500		5188.0000	05/25/95	13:30	bjg	0.02	@ICP-F01			
398	1310		9 S95T000648_A			P-F-01		5188		4967.1800		5188.0000	05/25/95	13:30	bjg	0.2	@ICP-F01			
399	1310		9 S95T000648_A			PB-F-01		5188		5596.6000		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
400	1310		9 S95T000648_A			S-F-01		5188		5139.3700		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
401	1310		9 S95T000648_A			SB-F-01		5188		5074.0908		5188.0000	05/25/95	13:30	bjg	0.2	@ICP-F01			
402	1310		9 S95T000648_A			SE-F-01		5188		4598.9180		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
403	1310		9 S95T000648_A			SI-F-01		5188		5099.8500		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
404	1310		9 S95T000648_A			SM-F-01		5188		5027.7778		5188.0000	05/25/95	13:30	bjg	0.1	@ICP-F01			
405	1310		9 S95T000648_A			SR-F-01		5188		4864.7000		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
406	1310		9 S95T000648_A			TI-F-01		5188		5027.4097		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
407	1310		9 S95T000648_A			TL-F-01		5188		5212.4336		5188.0000	05/25/95	13:30	bjg	0.2	@ICP-F01			
408	1310		9 S95T000648_A			U-F-01		10376		9335.5400		5188.0000	05/25/95	13:30	bjg	0.4	@ICP-F01			
409	1310		9 S95T000648_A			V-F-01		5188		5180.8281		5188.0000	05/25/95	13:30	bjg	0.05	@ICP-F01			
410	1310		9 S95T000648_A			ZN-F-01		5188		5447.9100		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
411	1310		9 S95T000648_A			ZR-F-01		5188		5101.8162		5188.0000	05/25/95	13:30	bjg	0.01	@ICP-F01			
412	1310		10		CCV	AG				5.1035		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
413	1310		10		CCV	AL				5.1557		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
414	1310		10		CCV	AS				5.3571		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
415	1310		10		CCV	B				5.1159		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
416	1310		10		CCV	BA				5.1410		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
417	1310		10		CCV	BE				5.3647		1.0000	05/25/95	14:00	bjg	0.005	@ICP-QC			
418	1310		10		CCV	BI				5.1571		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
419	1310		10		CCV	CA				5.2482		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
420	1310		10		CCV	CD				5.3025		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
421	1310		10		CCV	CE				5.2280		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
422	1310		10		CCV	CO				5.2487		1.0000	05/25/95	14:00	bjg	0.02	@ICP-QC			
423	1310		10		CCV	CR				5.2862		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
424	1310		10		CCV	CU				5.1864		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
425	1310		10		CCV	EU				0.0098		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
426	1310		10		CCV	FE				5.2852		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
427	1310		10		CCV	K				4.8297		1.0000	05/25/95	14:00	bjg	0.3	@ICP-QC			
428	1310		10		CCV	LA				5.2102		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
429	1310		10		CCV	LI				5.1725		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
430	1310		10		CCV	MG				5.1314		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
431	1310		10		CCV	MN				5.1867		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
432	1310		10		CCV	MO				5.2531		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
433	1310		10		CCV	NA				5.1109		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
434	1310		10		CCV	ND				5.3424		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
435	1310		10		CCV	NI				5.2193		1.0000	05/25/95	14:00	bjg	0.02	@ICP-QC			
436	1310		10		CCV	P				5.2792		1.0000	05/25/95	14:00	bjg	0.2	@ICP-QC			
437	1310		10		CCV	PB				5.2660		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
438	1310		10		CCV	S				5.2090		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
439	1310		10		CCV	SB				4.9378		1.0000	05/25/95	14:00	bjg	0.2	@ICP-QC			
440	1310		10		CCV	SE				5.3278		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
441	1310		10		CCV	SI				4.8708		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
442	1310		10		CCV	SM				5.2209		1.0000	05/25/95	14:00	bjg	0.1	@ICP-QC			
443	1310		10		CCV	SR				5.1072		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
444	1310		10		CCV	TH				-0.0472		1.0000	05/25/95	14:00	bjg	0	@ICP-QC			
445	1310		10		CCV	TI				5.0548		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
446	1310		10		CCV	TL				5.1849		1.0000	05/25/95	14:00	bjg	0.2	@ICP-QC			
447	1310		10		CCV	U				10.2673		1.0000	05/25/95	14:00	bjg	0.4	@ICP-QC			
448	1310		10		CCV	V				5.0198		1.0000	05/25/95	14:00	bjg	0.05	@ICP-QC			
449	1310		10		CCV	Y				0.0129		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
450	1310		10		CCV	ZN				5.2525		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
451	1310		10		CCV	ZR				5.1448		1.0000	05/25/95	14:00	bjg	0.01	@ICP-QC			
452	1310		11		CCB	AG				0.0003		1.0000	05/25/95	14:03	bjg	0.01	@ICP-QC			
453	1310		11		CCB	AL				0.0016		1.0000	05/25/95	14:03	bjg	0.05	@ICP-QC			
454	1310		11		CCB	AS				-0.0072		1.0000	05/25/95	14:03	bjg	0.05	@ICP-QC			
455	1310		11		CCB	B				0.0035		1.0000	05/25/95	14:03	bjg	0.05	@ICP-QC			
456	1310		11		CCB	BA				0.0002		1.0000	05/25/95	14:03	bjg	0.05	@ICP-QC			
457	1310		11		CCB	BE				-0.0001		1.0000	05/25/95	14:03	bjg	0.005	@ICP-QC			
458	1310		11		CCB	BI				0.0022		1.0000	05/25/95	14:03	bjg	0.1	@ICP-QC			
459	1310		11		CCB	CA				-0.0032		1.0000	05/25/95	14:03	bjg	0.1	@ICP-QC			
460	1310		11		CCB	CD				-0.0011		1.0000	05/25/95	14:03	bjg	0.01	@ICP-QC			
461	1310		11		CCB	CE				0.0053		1.0000	05/25/95	14:03	bjg	0.1	@ICP-QC			
462	1310		11		CCB	CO				-0.0035		1.0000	05/25/95	14:03	bjg	0.02	@ICP-QC			
463	1310		11		CCB	CR				-0.0007		1.0000	05/25/95	14:03	bjg	0.01	@ICP-QC			
464	1310		11		CCB	CU				-0.0004		1.0000	05/25/95	14:03	bjg	0.01	@ICP-QC			
465	1310		11		CCB	EU				-0.0004		1.0000	05/25/95	14:03	bjg	0.05	@ICP-QC			
466	1310		11		CCB	FE				-0.0010		1.0000	05/25/95	14:03	bjg	0.05	@ICP-QC			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
367	1310	11			CCB	K				-0.0397		1.0000	05/25/95	14:03	blg	0.3	@ICP-QC			
368	1310	11			CCB	LA				0.0006		1.0000	05/25/95	14:03	blg	0.05	@ICP-QC			
369	1310	11			CCB	LI				-0.0003		1.0000	05/25/95	14:03	blg	0.01	@ICP-QC			
370	1310	11			CCB	MG				-0.0089		1.0000	05/25/95	14:03	blg	0.1	@ICP-QC			
371	1310	11			CCB	MN				0.0000		1.0000	05/25/95	14:03	blg	0.01	@ICP-QC			
372	1310	11			CCB	MO				0.0004		1.0000	05/25/95	14:03	blg	0.05	@ICP-QC			
373	1310	11			CCB	NA				-0.0054		1.0000	05/25/95	14:03	blg	0.1	@ICP-QC			
374	1310	11			CCB	ND				-0.0036		1.0000	05/25/95	14:03	blg	0.1	@ICP-QC			
375	1310	11			CCB	NI				0.0009		1.0000	05/25/95	14:03	blg	0.02	@ICP-QC			
376	1310	11			CCB	P				0.0089		1.0000	05/25/95	14:03	blg	0.2	@ICP-QC			
377	1310	11			CCB	PB				-0.0094		1.0000	05/25/95	14:03	blg	0.1	@ICP-QC			
378	1310	11			CCB	S				-0.0096		1.0000	05/25/95	14:03	blg	0.05	@ICP-QC			
379	1310	11			CCB	SB				0.0070		1.0000	05/25/95	14:03	blg	0.2	@ICP-QC			
380	1310	11			CCB	SE				-0.0044		1.0000	05/25/95	14:03	blg	0.1	@ICP-QC			
381	1310	11			CCB	SI				0.0042		1.0000	05/25/95	14:03	blg	0.05	@ICP-QC			
382	1310	11			CCB	SM				-0.0072		1.0000	05/25/95	14:03	blg	0.1	@ICP-QC			
383	1310	11			CCB	SR				0.0000		1.0000	05/25/95	14:03	blg	0.01	@ICP-QC			
384	1310	11			CCB	TH				0.0081		1.0000	05/25/95	14:03	blg	0	@ICP-QC			
385	1310	11			CCB	TI				-0.0007		1.0000	05/25/95	14:03	blg	0.01	@ICP-QC			
386	1310	11			CCB	TL				0.0070		1.0000	05/25/95	14:03	blg	0.2	@ICP-QC			
387	1310	11			CCB	U				-0.0255		1.0000	05/25/95	14:03	blg	0.4	@ICP-QC			
388	1310	11			CCB	V				-0.0016		1.0000	05/25/95	14:03	blg	0.05	@ICP-QC			
389	1310	11			CCB	Y				-0.0004		1.0000	05/25/95	14:03	blg	0.01	@ICP-QC			
390	1310	11			CCB	ZN				0.0000		1.0000	05/25/95	14:03	blg	0.01	@ICP-QC			
391	1310	11			CCB	ZR				-0.0006		1.0000	05/25/95	14:03	blg	0.01	@ICP-QC			
392	1310	12	S9ST000851			AG-F-01			<	48.0000		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
393	1310	12	S9ST000851			AL-F-01				604.0175		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
394	1310	12	S9ST000851			AS-F-01			<	240.0000		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
395	1310	12	S9ST000851			B-F-01			<	240.0000		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
396	1310	12	S9ST000851			BA-F-01			<	240.0000		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
397	1310	12	S9ST000851			BE-F-01			<	24.0000		4800.0000	05/25/95	14:11	blg	0.005	@ICP-F01			
398	1310	12	S9ST000851			BI-F-01			<	480.0000		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
399	1310	12	S9ST000851			CA-F-01				813.3449		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
400	1310	12	S9ST000851			CD-F-01			<	48.0000		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
401	1310	12	S9ST000851			CE-F-01			<	480.0000		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
402	1310	12	S9ST000851			CO-F-01			<	96.0000		4800.0000	05/25/95	14:11	blg	0.02	@ICP-F01			
403	1310	12	S9ST000851			CR-F-01				178.8489		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
404	1310	12	S9ST000851			CU-F-01			<	48.0000		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
405	1310	12	S9ST000851			FE-F-01				19584.8133		4800.0000	05/25/95	14:11	blg	0.06	@ICP-F01			
406	1310	12	S9ST000851			K-F-01				6282689.5000		4800.0000	05/25/95	14:11	blg	0.3	@ICP-F01			
407	1310	12	S9ST000851			LA-F-01			<	240.0000		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
408	1310	12	S9ST000851			LI-F-01				185.2379		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
409	1310	12	S9ST000851			MG-F-01			<	480.0000		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
410	1310	12	S9ST000851			MN-F-01				132.2021		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
411	1310	12	S9ST000851			MO-F-01			<	240.0000		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
412	1310	12	S9ST000851			NA-F-01				103204.1797		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
413	1310	12	S9ST000851			ND-F-01			<	480.0000		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
414	1310	12	S9ST000851			NI-F-01				1134.1824		4800.0000	05/25/95	14:11	blg	0.02	@ICP-F01			
415	1310	12	S9ST000851			P-F-01				17343.2070		4800.0000	05/25/95	14:11	blg	0.2	@ICP-F01			
416	1310	12	S9ST000851			PB-F-01			<	480.0000		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
417	1310	12	S9ST000851			S-F-01				5871.1089		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
418	1310	12	S9ST000851			SB-F-01			<	960.0000		4800.0000	05/25/95	14:11	blg	0.2	@ICP-F01			
419	1310	12	S9ST000851			SE-F-01			<	480.0000		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
420	1310	12	S9ST000851			SI-F-01				743.0748		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
421	1310	12	S9ST000851			SM-F-01			<	480.0000		4800.0000	05/25/95	14:11	blg	0.1	@ICP-F01			
422	1310	12	S9ST000851			SR-F-01				679.8330		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
423	1310	12	S9ST000851			TI-F-01				129.9427		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
424	1310	12	S9ST000851			TL-F-01			<	960.0000		4800.0000	05/25/95	14:11	blg	0.2	@ICP-F01			
425	1310	12	S9ST000851			U-F-01				21945.1699		4800.0000	05/25/95	14:11	blg	0.4	@ICP-F01			
426	1310	12	S9ST000851			V-F-01			<	240.0000		4800.0000	05/25/95	14:11	blg	0.05	@ICP-F01			
427	1310	12	S9ST000851			ZN-F-01				173.5519		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
428	1310	12	S9ST000851			ZR-F-01			<	48.0000		4800.0000	05/25/95	14:11	blg	0.01	@ICP-F01			
429	1310	13	S9ST000851		DUP	AG-F-01		<48.0000		<48.1100		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
430	1310	13	S9ST000851		DUP	AL-F-01		604.0175		515.7686		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
431	1310	13	S9ST000851		DUP	AS-F-01		<240.0000		<240.5500		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
432	1310	13	S9ST000851		DUP	B-F-01		<240.0000		<240.5500		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
433	1310	13	S9ST000851		DUP	BA-F-01		<240.0000		<240.5500		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
434	1310	13	S9ST000851		DUP	BE-F-01		<24.0000		<24.0550		4811.0000	05/25/95	14:14	blg	0.005	@ICP-F01			
435	1310	13	S9ST000851		DUP	BI-F-01		<480.0000		<481.1000		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
436	1310	13	S9ST000851		DUP	CA-F-01		813.3449		859.7461		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
437	1310	13	S9ST000851		DUP	CD-F-01		<48.0000		<48.1100		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
438	1310	13	S9ST000851		DUP	CE-F-01		<480.0000		<481.1000		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
439	1310	13	S9ST000851		DUP	CO-F-01		<96.0000		<96.2200		4811.0000	05/25/95	14:14	blg	0.02	@ICP-F01			
440	1310	13	S9ST000851		DUP	CR-F-01		178.8489		171.5950		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
441	1310	13	S9ST000851		DUP	CU-F-01		<48.0000		<48.1100		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
442	1310	13	S9ST000851		DUP	FE-F-01		19584.8133		19228.1152		4811.0000	05/25/95	14:14	blg	0.06	@ICP-F01			
443	1310	13	S9ST000851		DUP	K-F-01		6282689.5000		6000376.5000		4811.0000	05/25/95	14:14	blg	0.3	@ICP-F01			
444	1310	13	S9ST000851		DUP	LA-F-01		<240.0000		<240.5500		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
445	1310	13	S9ST000851		DUP	LI-F-01		185.2379		168.4001		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
446	1310	13	S9ST000851		DUP	MG-F-01		<480.0000		<481.1000		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
447	1310	13	S9ST000851		DUP	MN-F-01		132.2021		121.7201		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
448	1310	13	S9ST000851		DUP	MO-F-01		<240.0000		<240.5500		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
449	1310	13	S9ST000851		DUP	NA-F-01		103204.1797		100468.0547		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
450	1310	13	S9ST000851		DUP	ND-F-01		<480.0000		<481.1000		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
451	1310	13	S9ST000851		DUP	NI-F-01		1134.1824		1202.5879		4811.0000	05/25/95	14:14	blg	0.02	@ICP-F01			
452	1310	13	S9ST000851		DUP	P-F-01		17343.2070		17890.1094		4811.0000	05/25/95	14:14	blg	0.2	@ICP-F01			
453	1310	13	S9ST000851		DUP	PB-F-01		<480.0000		536.7734		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
454	1310	13	S9ST000851		DUP	S-F-01		5871.1089		5979.1362		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
455	1310	13	S9ST000851		DUP	SB-F-01		<960.0000		<962.2000		4811.0000	05/25/95	14:14	blg	0.2	@ICP-F01			
456	1310	13	S9ST000851		DUP	SE-F-01		<480.0000		<481.1000		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
457	1310	13	S9ST000851		DUP	SI-F-01		743.0748		784.1515		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
458	1310	13	S9ST000851		DUP	SM-F-01		<480.0000		<481.1000		4811.0000	05/25/95	14:14	blg	0.1	@ICP-F01			
459	1310	13	S9ST000851		DUP	SR-F-01		679.8330		660.9693		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
460	1310	13	S9ST000851		DUP	TI-F-01		129.9427		<48.1100		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
461	1310	13	S9ST000851		DUP	TL-F-01		<960.0000		<962.2000		4811.0000	05/25/95	14:14	blg	0.2	@ICP-F01			
462	1310	13	S9ST000851		DUP	U-F-01		21945.1699		22391.2930		4811.0000	05/25/95	14:14	blg	0.4	@ICP-F01			
463	1310	13	S9ST000851		DUP	V-F-01		<240.0000		<240.5500		4811.0000	05/25/95	14:14	blg	0.05	@ICP-F01			
464	1310	13	S9ST000851		DUP	ZN-F-01		173.5519		169.5683		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
465	1310	13	S9ST000851		DUP	ZR-F-01		<48.0000		<48.1100		4811.0000	05/25/95	14:14	blg	0.01	@ICP-F01			
466	1310	14	S9ST000851_A			AG-F-01		4800		3630.8394		4800.0000	05/25/95	14:18	blg	0.01	@ICP-F01			
467	1310	14	S9ST000851_A			AL-F-01		4800		4531.1500		4800.0000	05/25/95	14:18	blg	0.05	@ICP-F01			
468	1310	14	S9ST000851_A			AS-F-01		4800		4909.5439		4800.0000	05/25/95	14:18	blg	0.05	@ICP-F01			
469	1310	14	S9ST000851_A			B-F-01		4800		4580.8760		4800.0000	05/25/95	14:18	blg	0.05	@ICP-F01			
470	1310	14	S9ST000851_A			BA-F-01		4800		4460.3135		4800.0000	05/25/95	14:18	blg	0.05	@ICP-F01			
471	1310	14	S9ST000851_A			BE-F-01		4800		4720.4321		4800.0000	05/25/95	14:18	blg	0.005	@ICP-F01			
472	1310	14	S9ST000851_A			BI-F-01		4800		714.2887		4800.0000	05/25/95	14:18	blg	0.1	@ICP-F01			
473	1310	14	S9ST000851_A			CA-F-01		4800		4565.9100		4800.0000	05/25/95	14:18	blg	0.1	@ICP-F01			
474	1310	14	S9ST000851_A			CD-F-01		4800		4731.1064		4800.0000	05/25/95	14:18	blg	0.01	@ICP-F01			
475	1310	14	S9ST000851_A			CE-F-01		4800		4574.1768		4800.0000	05/25/95	14:18	blg	0.1	@ICP-F01			
476	1310	14	S9ST000851_A			CO-F-01		4800		4858.8255		4800.0000	05/25/95	14:18	blg	0.02	@ICP-F01			
477	1310	14	S9ST000851_A			CR-F-01		4800		4748.4200		4800.0000	05/25/95	14:18	blg	0.01	@ICP-F01			
478	1310	14	S9ST000851_A			CU-F-01		4800		4575.5527		4800.0000	05/25/95	14:18	blg	0.01	@ICP-F01			
479	1310	14	S9ST000851_A			FE-F-01		4800		4794.3800		4800.0000	05/25/95	14:18	blg	0.05	@ICP-F01			
480	1310	14	S9ST000851_A			K-F-01		0		6105542.0000		4800.0000	05/25/95	14:18	blg	0.3	@ICP-F01			
481	1310	14	S9ST000851_A			LA-F-01		4800		4564.5771		4800.0000	05/25/95	14:18	blg	0.05	@ICP-F01			
482	1310	14	S9ST000851_A			LI-F-01		4800		4460.5000		4800.0000	05/25/95	14:18	blg	0.01	@ICP-F01			
483	1310	14	S9ST000851_A			MG-F-01		4800		4662.8711		4800.0000	05/25/95	14:18	blg	0.1	@ICP-F01			
484	1310	14	S9ST000851_A			MN-F-01		4800		4531.1200		4800.0000	05/25/95	14:18	blg	0.01	@ICP-F01			
485	1310	14	S9ST000851_A			MO-F-01		4800		4767.2798		4800.0000	05/25/95	14:18	blg	0.05	@ICP-F01			
486	1310	14	S9ST000851_A			NA-F-01		0		104017.8125		4800.0000	05/25/95	14:18	blg	0.1	@ICP-F01			
487	1310	14	S9ST000851_A			ND-F-01		4800		4645.2603		4800.0000	05/25/95	14:18	blg	0.1	@ICP-F01			
488	1310	14	S9ST000851_A			NI-F-01		4800		4667.1100		4800.0000	05/25/95	14:18	blg	0.02	@ICP-F01			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
479	1310	14	S95T000851_A			P-F-01		4800		4994.5100		4800.0000	05/25/95	14:18	bjg	0.2	@ICP-F01			
480	1310	14	S95T000851_A			PB-F-01		4800		5385.2681		4800.0000	05/25/95	14:18	bjg	0.1	@ICP-F01			
481	1310	14	S95T000851_A			S-F-01		4800		4734.1300		4800.0000	05/25/95	14:18	bjg	0.05	@ICP-F01			
482	1310	14	S95T000851_A			SB-F-01		4800		4446.9855		4800.0000	05/25/95	14:18	bjg	0.2	@ICP-F01			
483	1310	14	S95T000851_A			SE-F-01		4800		3517.9036		4800.0000	05/25/95	14:18	bjg	0.1	@ICP-F01			
484	1310	14	S95T000851_A			SI-F-01		4800		4627.4400		4800.0000	05/25/95	14:18	bjg	0.05	@ICP-F01			
485	1310	14	S95T000851_A			SM-F-01		4800		4555.5801		4800.0000	05/25/95	14:18	bjg	0.1	@ICP-F01			
486	1310	14	S95T000851_A			SR-F-01		4800		4484.9900		4800.0000	05/25/95	14:18	bjg	0.01	@ICP-F01			
487	1310	14	S95T000851_A			TH-F-01		4800		4497.4200		4800.0000	05/25/95	14:18	bjg	0.01	@ICP-F01			
488	1310	14	S95T000851_A			TL-F-01		4800		4596.9507		4800.0000	05/25/95	14:18	bjg	0.2	@ICP-F01			
489	1310	14	S95T000851_A			U-F-01		9600		8665.6500		4800.0000	05/25/95	14:18	bjg	0.4	@ICP-F01			
490	1310	14	S95T000851_A			V-F-01		4800		4527.8691		4800.0000	05/25/95	14:18	bjg	0.05	@ICP-F01			
491	1310	14	S95T000851_A			ZN-F-01		4800		473028.0000		4800.0000	05/25/95	14:18	bjg	0.01	@ICP-F01			
492	1310	14	S95T000851_A			ZR-F-01		4800		4586.0928		4800.0000	05/25/95	14:18	bjg	0.01	@ICP-F01			
493	1310	15			ICSA	AG				0.0131		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
494	1310	15			ICSA	AL				244.4845		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
495	1310	15			ICSA	AS				-0.0473		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
496	1310	15			ICSA	B				0.0095		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
497	1310	15			ICSA	BA				0.0036		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
498	1310	15			ICSA	BE				-0.0002		1.0000	05/25/95	14:22	bjg	0.005	@ICP-QC			
499	1310	15			ICSA	BI				0.0055		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
510	1310	15			ICSA	CA				242.5173		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
511	1310	15			ICSA	CD				-0.0026		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
512	1310	15			ICSA	CE				0.0183		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
513	1310	15			ICSA	CO				-0.0004		1.0000	05/25/95	14:22	bjg	0.02	@ICP-QC			
514	1310	15			ICSA	CR				-0.0075		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
515	1310	15			ICSA	CU				-0.0099		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
516	1310	15			ICSA	EU				0.0329		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
517	1310	15			ICSA	FE				91.8266		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
518	1310	15			ICSA	K				0.6782		1.0000	05/25/95	14:22	bjg	0.3	@ICP-QC			
519	1310	15			ICSA	LA				-0.0026		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
520	1310	15			ICSA	LI				0.0020		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
521	1310	15			ICSA	MG				251.8526		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
522	1310	15			ICSA	MN				-0.0071		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
523	1310	15			ICSA	MO				-0.0127		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
524	1310	15			ICSA	NA				194.4525		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
525	1310	15			ICSA	ND				0.0145		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
526	1310	15			ICSA	NI				-0.0103		1.0000	05/25/95	14:22	bjg	0.02	@ICP-QC			
527	1310	15			ICSA	P				0.0713		1.0000	05/25/95	14:22	bjg	0.2	@ICP-QC			
528	1310	15			ICSA	PB				0.0233		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
529	1310	15			ICSA	S				0.0187		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
530	1310	15			ICSA	SB				-0.0100		1.0000	05/25/95	14:22	bjg	0.2	@ICP-QC			
531	1310	15			ICSA	SE				0.0699		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
532	1310	15			ICSA	SI				0.0239		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
533	1310	15			ICSA	SM				-0.0168		1.0000	05/25/95	14:22	bjg	0.1	@ICP-QC			
534	1310	15			ICSA	SR				-0.0035		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
535	1310	15			ICSA	TH				-0.0134		1.0000	05/25/95	14:22	bjg	0	@ICP-QC			
536	1310	15			ICSA	TI				-0.0005		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
537	1310	15			ICSA	TL				0.0592		1.0000	05/25/95	14:22	bjg	0.2	@ICP-QC			
538	1310	15			ICSA	U				0.1753		1.0000	05/25/95	14:22	bjg	0.4	@ICP-QC			
539	1310	15			ICSA	V				-0.0024		1.0000	05/25/95	14:22	bjg	0.05	@ICP-QC			
540	1310	15			ICSA	Y				0.0165		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
541	1310	15			ICSA	ZN				-0.0269		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
542	1310	15			ICSA	ZR				-0.0009		1.0000	05/25/95	14:22	bjg	0.01	@ICP-QC			
543	1310	16			ICSAB	AG				0.0534		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
544	1310	16			ICSAB	AL				245.1528		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
545	1310	16			ICSAB	AS				-0.0310		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
546	1310	16			ICSAB	B				0.0039		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
547	1310	16			ICSAB	BA				0.4898		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
548	1310	16			ICSAB	BE				0.4795		1.0000	05/25/95	14:25	bjg	0.005	@ICP-QC			
549	1310	16			ICSAB	BI				0.0334		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
550	1310	16			ICSAB	CA				241.2325		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
551	1310	16			ICSAB	CD				0.9339		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
552	1310	16			ICSAB	CE				0.0170		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
553	1310	16			ICSAB	CO				0.4615		1.0000	05/25/95	14:25	bjg	0.02	@ICP-QC			
554	1310	16			ICSAB	CR				0.4613		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
555	1310	16			ICSAB	CU				0.4636		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
556	1310	16			ICSAB	EU				0.0393		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
557	1310	16			ICSAB	FE				91.8514		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
558	1310	16			ICSAB	K				0.2102		1.0000	05/25/95	14:25	bjg	0.3	@ICP-QC			
559	1310	16			ICSAB	LA				-0.0026		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
560	1310	16			ICSAB	LI				1.0133		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
561	1310	16			ICSAB	MG				251.4285		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
562	1310	16			ICSAB	MN				0.4431		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
563	1310	16			ICSAB	MO				-0.0162		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
564	1310	16			ICSAB	NA				195.7740		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
565	1310	16			ICSAB	ND				0.0164		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
566	1310	16			ICSAB	NI				0.9108		1.0000	05/25/95	14:25	bjg	0.02	@ICP-QC			
567	1310	16			ICSAB	P				0.0790		1.0000	05/25/95	14:25	bjg	0.2	@ICP-QC			
568	1310	16			ICSAB	PB				0.9499		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
569	1310	16			ICSAB	S				0.0233		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
570	1310	16			ICSAB	SB				0.0010		1.0000	05/25/95	14:25	bjg	0.2	@ICP-QC			
571	1310	16			ICSAB	SE				0.0612		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
572	1310	16			ICSAB	SI				0.0236		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
573	1310	16			ICSAB	SM				-0.0181		1.0000	05/25/95	14:25	bjg	0.1	@ICP-QC			
574	1310	16			ICSAB	SR				-0.0039		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
575	1310	16			ICSAB	TH				-0.0130		1.0000	05/25/95	14:25	bjg	0	@ICP-QC			
576	1310	16			ICSAB	TI				-0.0002		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
577	1310	16			ICSAB	TL				0.0917		1.0000	05/25/95	14:25	bjg	0.2	@ICP-QC			
578	1310	16			ICSAB	U				0.1582		1.0000	05/25/95	14:25	bjg	0.4	@ICP-QC			
579	1310	16			ICSAB	V				0.4623		1.0000	05/25/95	14:25	bjg	0.05	@ICP-QC			
580	1310	16			ICSAB	Y				0.0160		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
581	1310	16			ICSAB	ZN				0.9279		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
582	1310	16			ICSAB	ZR				-0.0035		1.0000	05/25/95	14:25	bjg	0.01	@ICP-QC			
583	1310	17			CCV	AG				5.0379		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
584	1310	17			CCV	AL				5.1904		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
585	1310	17			CCV	AS				5.2475		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
586	1310	17			CCV	B				5.0965		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
587	1310	17			CCV	BA				5.1994		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
588	1310	17			CCV	BE				5.3370		1.0000	05/25/95	14:29	bjg	0.005	@ICP-QC			
589	1310	17			CCV	BI				5.1588		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
590	1310	17			CCV	CA				5.0579		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
591	1310	17			CCV	CD				5.1321		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
592	1310	17			CCV	CE				5.2692		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
593	1310	17			CCV	CO				5.1150		1.0000	05/25/95	14:29	bjg	0.02	@ICP-QC			
594	1310	17			CCV	CR				5.1508		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
595	1310	17			CCV	CU				5.2696		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
596	1310	17			CCV	EU				0.0068		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
597	1310	17			CCV	FE				5.1609		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
598	1310	17			CCV	K				5.3097		1.0000	05/25/95	14:29	bjg	0.3	@ICP-QC			
599	1310	17			CCV	LA				5.2743		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
600	1310	17			CCV	LI				5.4362		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
601	1310	17			CCV	MG				5.1535		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
602	1310	17			CCV	MN				5.0436		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
603	1310	17			CCV	MO				5.1178		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
604	1310	17			CCV	NA				5.2782		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
605	1310	17			CCV	ND				5.4310		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
606	1310	17			CCV	NI				5.1059		1.0000	05/25/95	14:29	bjg	0.02	@ICP-QC			
607	1310	17			CCV	P				5.1579		1.0000	05/25/95	14:29	bjg	0.2	@ICP-QC			
608	1310	17			CCV	PB				5.0686		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
609	1310	17			CCV	S				5.1171		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
610	1310	17			CCV	SB				4.8678		1.0000	05/25/95	14:29	bjg	0.2	@ICP-QC			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
611	1310	17			CCV	SE				5.2971		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
612	1310	17			CCV	SI				4.7877		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
613	1310	17			CCV	SM				5.3152		1.0000	05/25/95	14:29	bjg	0.1	@ICP-QC			
614	1310	17			CCV	SR				5.1749		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
615	1310	17			CCV	TH				-0.0396		1.0000	05/25/95	14:29	bjg	0	@ICP-QC			
616	1310	17			CCV	TI				5.0486		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
617	1310	17			CCV	TL				5.0329		1.0000	05/25/95	14:29	bjg	0.2	@ICP-QC			
618	1310	17			CCV	U				10.4329		1.0000	05/25/95	14:29	bjg	0.4	@ICP-QC			
619	1310	17			CCV	V				4.9526		1.0000	05/25/95	14:29	bjg	0.05	@ICP-QC			
620	1310	17			CCV	Y				0.0117		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
621	1310	17			CCV	ZN				5.0983		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
622	1310	17			CCV	ZR				5.1263		1.0000	05/25/95	14:29	bjg	0.01	@ICP-QC			
623	1310	18			CCB	AG				0.0015		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
624	1310	18			CCB	AL				0.0053		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
625	1310	18			CCB	AS				0.0156		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
626	1310	18			CCB	B				0.0040		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
627	1310	18			CCB	BA				0.0006		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
628	1310	18			CCB	BE				0.0003		1.0000	05/25/95	14:32	bjg	0.005	@ICP-QC			
629	1310	18			CCB	BI				-0.0020		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
630	1310	18			CCB	CA				-0.0083		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
631	1310	18			CCB	CD				-0.0013		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
632	1310	18			CCB	CE				0.0089		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
633	1310	18			CCB	CO				-0.0025		1.0000	05/25/95	14:32	bjg	0.02	@ICP-QC			
634	1310	18			CCB	CR				-0.0009		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
635	1310	18			CCB	CU				-0.0006		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
636	1310	18			CCB	EU				-0.0013		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
637	1310	18			CCB	FE				-0.0022		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
638	1310	18			CCB	K				0.0855		1.0000	05/25/95	14:32	bjg	0.3	@ICP-QC			
639	1310	18			CCB	LA				0.0013		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
640	1310	18			CCB	LI				-0.0008		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
641	1310	18			CCB	MG				-0.0008		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
642	1310	18			CCB	MN				-0.0000		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
643	1310	18			CCB	MO				-0.0002		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
644	1310	18			CCB	NA				-0.0036		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
645	1310	18			CCB	ND				-0.0029		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
646	1310	18			CCB	NI				0.0096		1.0000	05/25/95	14:32	bjg	0.02	@ICP-QC			
647	1310	18			CCB	P				0.0014		1.0000	05/25/95	14:32	bjg	0.2	@ICP-QC			
648	1310	18			CCB	PB				-0.0258		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
649	1310	18			CCB	S				-0.0045		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
650	1310	18			CCB	SB				0.0089		1.0000	05/25/95	14:32	bjg	0.2	@ICP-QC			
651	1310	18			CCB	SE				-0.0371		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
652	1310	18			CCB	SI				-0.0043		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
653	1310	18			CCB	SM				-0.0203		1.0000	05/25/95	14:32	bjg	0.1	@ICP-QC			
654	1310	18			CCB	SR				0.0000		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
655	1310	18			CCB	TH				0.0072		1.0000	05/25/95	14:32	bjg	0	@ICP-QC			
656	1310	18			CCB	TI				-0.0009		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
657	1310	18			CCB	TL				0.0044		1.0000	05/25/95	14:32	bjg	0.2	@ICP-QC			
658	1310	18			CCB	U				-0.0562		1.0000	05/25/95	14:32	bjg	0.4	@ICP-QC			
659	1310	18			CCB	V				-0.0033		1.0000	05/25/95	14:32	bjg	0.05	@ICP-QC			
660	1310	18			CCB	Y				-0.0010		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
661	1310	18			CCB	ZN				0.0002		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
662	1310	18			CCB	ZR				-0.0014		1.0000	05/25/95	14:32	bjg	0.01	@ICP-QC			
663																				

WHC-SD-WM-DP-154, REV. 0

8
05/30/95

572.1

FILE # 09603298.TXT

03/25/96 15:09
A-0004-1

LABCORE Data Entry Template for Worklist# 6952

Analyst: B. Goeltz **Instrument:** ~~ICP01~~ ICP02 3-29-96 **Book#** 53848

Method: LA-505-~~151~~ 161 Rev/Mod 3-31-96 B-0

Rush

Worklist Comment: ICP BX-10~~5~~9 (SOLID WATER DIGEST) 3-31-96

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLKTJA				@ICP-I01	SOLID		
6	SERDIL	S96T001568	0	I	@ICP-I01	SOLID		
7	SAMPLE	S96T001568	0	I	@ICP-I01	SOLID	95000057	BX-109
	Analytes Requested:				AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01			
8	DUP	S96T001568	0	I	@ICP-I01	SOLID		
9	SPK	S96T001568	0	I	@ICP-I01	SOLID		
10	ICSA				@ICP-QC	QC		
11	ICSAB				@ICP-QC	QC		
12	CCV				@ICP-QC	QC		
13	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

03/25/96 15:09
A-0004-1

LABCORE Data Entry Template for Worklist# 6952

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 6952

Analyst Signature 3-28-96 Date

Reviewed by:
Analyst Signature 4/1/96 Date

		D.F.
ALKPBERTJA	DIRECT	1
596T00 1568-C	4-mL-6mL-2mL-8-mL	12.5
596T00 1568	4-mL-6-mL	2.5
596T00 1568-B	4-mL-6-mL	2.5
596T00 1568-A	4-mL-2-mL-4-mL	2.5

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Analyses Report Summary Fri 03-29-96 10:52:31 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960329B	ICP2	03/29/96	10:12	BJG	Q	CONC
2	ICB	960329B	ICP2	03/29/96	10:16	BJG	Q	CONC
3	ICSA	960329B	ICP2	03/29/96	10:19	BJG	Q	CONC
4	ICSAB	960329B	ICP2	03/29/96	10:22	BJG	Q	CONC
5	PREPBLKTJA	960329B	ICP2	03/29/96	10:25	BJG	S	CONC
6	S96T001568_L	960329B	ICP2	03/29/96	10:27	BJG	S	CONC
7	S96T001568	960329B	ICP2	03/29/96	10:31	BJG	S	CONC
8	S96T001568_D	960329B	ICP2	03/29/96	10:33	BJG	S	CONC
9	S96T001568_A	960329B	ICP2	03/29/96	10:36	BJG	S	CONC
10	ICSA	960329B	ICP2	03/29/96	10:40	BJG	Q	CONC
11	ICSAB	960329B	ICP2	03/29/96	10:42	BJG	Q	CONC
12	CCV	960329B	ICP2	03/29/96	10:45	BJG	Q	CONC
13	CCB	960329B	ICP2	03/29/96	10:49	BJG	Q	CONC

3-29-96

8X-109 H_2O DIGEST

S96T001568

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 573.2 TO 573.5

Analysis Report Averages Fri 03-29-96 10:52:31 AM page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.051	4.979	5.160	5.042	5.221	5.194
2	ICB	.0018	.0157	-.0149	.0056	.0001	.0001
3	ICSA	.0035	241.2	-.0673	.0030	.0026	.0004
4	ICSAB	.9810	239.4	-.0638	.0041	.5034	.4821
5	PREPBLKTJA	-.0009	.0103	-.0141	.0022	.0004	.0001
6	S96T001568_L	.0828	.2159	.0248	.4053	.0006	.0018
7	S96T001568	.0801	.1016	.0275	.3945	.0006	.0007
8	S96T001568_D	.0869	.0660	.0210	.4237	.0003	.0003
9	S96T001568_A	2.462	2.571	2.608	2.910	2.590	2.574
10	ICSA	.0107	238.0	-.0572	.0024	.0027	.0005
11	ICSAB	.9806	237.7	-.0457	.0024	.4969	.4813
12	CCV	5.058	4.966	5.222	5.042	5.200	5.222
13	CCB	.0009	.0205	-.0076	.0009	.0000	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.138	5.116	5.041	5.300	5.116	5.141
2	ICB	.0142	.0026	.0001	.0137	.0005	.0016
3	ICSA	-.0112	250.9	.0014	.0246	.0027	.0028
4	ICSAB	-.0274	249.9	.9550	.0242	.4776	.4871
5	PREPBLKTJA	.0291	.3295	-.0007	.0084	.0028	.0013
6	S96T001568_L	-.0326	1.681	.0122	.1375	.0015	.5672
7	S96T001568	.0415	1.683	.0034	.0020	.0020	.5462
8	S96T001568_D	.0256	2.702	.0018	.0344	.0046	.5890
9	S96T001568_A	2.535	4.281	2.549	2.709	2.577	3.147
10	ICSA	.0050	253.3	.0013	.0272	.0006	.0040
11	ICSAB	.0004	253.3	.9557	.0295	.4787	.4894
12	CCV	5.119	5.265	5.081	5.283	5.150	5.182
13	CCB	.0166	.0003	.0003	.0098	.0014	.0016

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.293	-.0035	5.131	5.056	5.213	5.157
2	ICB	.0009	-.0004	.0016	.0659	.0021	-.0005
3	ICSA	-.0110	-.0353	94.37	-.1801	-.0040	.0022
4	ICSAB	.4953	-.0343	93.94	.1254	-.0046	.9888
5	PREPBLKTJA	-.0001	.0015	-.0005	-.1314	-.0001	.0061
6	S96T001568_L	-.0032	.0031	-.0086	-1.920	.0070	.0594
7	S96T001568	-.0013	.0001	-.0002	.2233	.0014	.0611
8	S96T001568_D	.0003	-.0001	.0037	.9842	.0025	.0768
9	S96T001568_A	2.630	-.0018	2.581	4.164	2.616	2.605
10	ICSA	-.0103	-.0426	94.09	.1527	-.0029	.0029
11	ICSAB	.4893	-.0420	94.15	.1502	-.0043	.9785
12	CCV	5.278	-.0027	5.160	5.024	5.189	5.112
13	CCB	.0002	.0000	.0006	-.1153	.0014	.0001

Analysis Report Averages Fri 03-29-96 10:52:31 AM page 3

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.921	5.015	5.123	5.104	5.277	5.060
2	ICB	.0065	.0003	.0010	-.0018	.0051	.0007
3	ICSA	244.5	-.0066	-.0112	201.2	.0077	-.0074
4	ICSAB	244.5	.4551	-.0100	200.2	.0080	.9360
5	PREPBLKTJA	.0898	.0008	.0031	2.478	.0017	.0041
6	S96T001568_L	.4220	.0054	.0424	1094.	-.0058	-.0138
7	S96T001568	.4560	.0007	.0318	1105.	-.0054	.0086
8	S96T001568_D	.7926	-.0001	.0350	1192.	.0016	.0083
9	S96T001568_A	2.892	2.459	2.640	1097.	2.642	2.532
10	ICSA	242.0	-.0064	-.0115	196.8	.0114	.0016
11	ICSAB	243.7	.4555	-.0111	197.6	.0099	.9335
12	CCV	4.911	5.027	5.141	5.044	5.249	5.093
13	CCB	-.0020	.0003	.0019	-.0044	.0019	-.0004

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.966	5.024	4.919	4.844	4.904	4.753
2	ICB	-.0595	.0148	-.0071	.0086	.0172	.0031
3	ICSA	.0236	.0418	-.0383	.0120	-.0698	.0009
4	ICSAB	-.0041	1.037	-.0372	.0034	-.0517	-.0016
5	PREPBLKTJA	-.0459	.0076	.0077	.0001	.0281	1.401
6	S96T001568_L	81.95	.1167	69.14	-.0627	.4431	6.159
7	S96T001568	83.97	-.0115	70.20	.0083	.0610	6.246
8	S96T001568_D	89.01	.0151	76.30	-.0049	.0389	15.57
9	S96T001568_A	86.20	2.567	72.04	2.480	2.609	8.662
10	ICSA	.0313	.0429	-.0456	.0101	-.0491	-.0014
11	ICSAB	-.0413	1.047	-.0281	.0099	-.0439	.0025
12	CCV	5.016	5.044	4.942	4.879	4.956	4.778
13	CCB	-.0467	.0090	.0011	-.0081	.0179	.0022

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.091	5.126	-.0303	5.006	4.907	10.09
2	ICB	-.0056	.0000	.0091	.0010	.0081	-.0039
3	ICSA	-.0108	-.0024	.0059	.0012	.0013	.1265
4	ICSAB	-.0093	-.0025	.0038	.0016	.0012	.1193
5	PREPBLKTJA	.0131	.0043	-.0015	-.0005	-.0001	.0850
6	S96T001568_L	.0194	.0487	-.0125	.0059	-.1312	.2748
7	S96T001568	-.0134	.0485	.0057	-.0012	-.0252	-.0472
8	S96T001568_D	-.0211	.0604	.0189	.0006	-.0132	.0286
9	S96T001568_A	2.515	2.609	.0077	2.518	2.424	5.029
10	ICSA	-.0048	-.0024	.0059	.0019	-.0186	.1139
11	ICSAB	.0014	-.0025	.0061	.0019	-.0365	.1218
12	CCV	5.043	5.113	-.0222	5.002	4.960	10.05
13	CCB	-.0069	.0000	.0054	.0003	.0048	-.0029

Analysis Report Averages Fri 03-29-96 10:52:31 AM page 4

#	Sample Name	V	Y	Zn	Zr		
1	ICV	5.141	.0055	5.070	5.082		
2	ICB	-.0015	-.0001	.0002	-.0007		
3	ICSA	-.0022	.0068	-.0015	-.0046		
4	ICSAB	.4753	.0068	.9678	-.0039		
5	PREPBLKTJA	.0022	.0007	.0014	.0021		
6	S96T001568_L	.0131	.0009	.0680	.0094		
7	S96T001568	-.0032	-.0006	.0472	-.0022		
8	S96T001568_D	-.0030	-.0008	.0459	-.0042		
9	S96T001568_A	2.582	.0026	2.629	2.539		
10	ICSA	-.0008	.0072	-.0021	-.0025		
11	ICSAB	.4781	.0074	.9724	-.0023		
12	CCV	5.162	.0058	5.106	5.071		
13	CCB	-.0002	-.0001	.0006	-.0008		

LABCORE Data Entry Template for Worklist# 6968

Analyst: JLS2 **Instrument:** CARB2 **Book #** 17N12-F TIC 16N12-E TOC

Method: LA-342-100 Rev/Mod C-0

RUSH

Worklist Comment: BX-109 TICTOC. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				@TICTOC1 TIC-02	SOLID	1	.40	N/A	ug/g
		1	BLNK				@TICTOC1 TOC-02	SOLID	1	1.6	N/A	ug/g
		2	STD				@TICTOC1 TIC-02	SOLID	6.00 E2	5.85 E2	N/A	ug/g
		2	STD				@TICTOC1 TOC-02	SOLID	3.00 E3	2.79 E3	N/A	ug/g
95000057	BX-109	3	SAMPLE	S95T000768	0		@TICTOC1 TIC-02	SOLID	N/A	2.59 E2		ug/g
95000057	BX-109	3	SAMPLE	S95T000768	0		@TICTOC1 TOC-02	SOLID	N/A	4.57 E2	40.0	ug/g
95000057	BX-109	4	DUP	S95T000768	0		@TICTOC1 TIC-02	SOLID	2.59 E2	2.62 E2	N/A	ug/g
95000057	BX-109	4	DUP	S95T000768	0		@TICTOC1 TOC-02	SOLID	4.57 E2	3.76 E2	N/A	ug/g
95000057	BX-109	5	SPK	S95T000768	0		@TICTOC1 TIC-02	SOLID	100	99	N/A	ug/g
95000057	BX-109	5	SPK	S95T000768	0		@TICTOC1 TOC-02	SOLID	100	91	N/A	ug/g

Final page for worklist # 6968

Analyst Signature Date 3/27/96

Analyst Signature Date 3-29-96

Reviewed RW Schroeder 3/29/96

TIC Data Included As Additional Information

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TOC/TIC: LA-342-100 (C-6)

WORKLIST #	ANALYST SIGNATURE	ANALYSIS DATE	ANALYSIS TIME	INSTRUMENT CODE

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments:

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments:

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments:

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments:

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments:

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments:

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments:

☐ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ BASELINE ☐ SPIKE ☐ BLANK ☐ TRIPLICATE

SAMPLE # =

TIC STD # =
TOC STD # =

Amount of SAMPLE Used _____

	TIC	TOC
SPIKE/STANDARD Added (mL)		
Final Coulometer Reading in µg Carbon (Optional)		

Comments: