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

Document number: SD-WM-DP-145

Section 1 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

THIS PAGE INTENTIONALLY
LEFT BLANK.

COMPLETE

ENGINEERING CHANGE NOTICE

1. ECN 629001

Proj. ECN

2. ECN Category (mark one)	3. Originator's Name, Organization, MSIN, and Telephone No.	3a. USQ Required?	4. Date
Supplemental [] Direct Revision [X] Change ECN [] Temporary [] Standby [] Supersedure [] Cancel/Void []	John H. Baldwin, Characterization Technical Basis, R2-12, 373-4533	[] Yes [X] No	01/25/96
	5. Project Title/No./Work Order No. Tank 241-BY-108, Core Samples 98 & 104	6. Bldg./Sys./Fac. No. N/A	7. Approval Designator Q
	8. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-WM-DP-145, Rev. 0	9. Related ECN No(s). N/A	10. Related PO No. N/A

11a. Modification Work	11b. Work Package No.	11c. Modification Work Complete	11d. Restored to Original Condition (Temp. or Standby ECN only)
[] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)	N/A	N/A Cog. Engineer Signature & Date	N/A Cog. Engineer Signature & Date

12. Description of Change

Revised to include raw data from 222-S Laboratory plus Pacific Northwest Laboratory report for completeness to the initial 60-Day Safety Screening and Ferrocyanide Results.

13a. Justification (mark one)

Criteria Change	[X]	Design Improvement	[]	Environmental	[]	Facility Deactivation	[]
As-Found	[]	Facilitate Const	[]	Const. Error/Omission	[]	Design Error/Omission	[]

13b. Justification Details

This ECN is being generated to include all the data that was created, processed and documented on this tank by both Pacific Northwest Laboratory and 222-S Laboratories.

14. Distribution (include name, MSIN, and no. of copies)

See Attached Distribution Sheet.

RELEASE STAMP

DATE: HANFORD RELEASE

STA: 4

ID: 3

FEB 02 1996

A-7900-013-2 (11/94) GEF095

ENGINEERING CHANGE NOTICE

1. ECN (use no. from pg. 1): 629001

15. Design Verification Required	16. Cost Impact				17. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
[] Yes	Additional	[] $	Additional	[] $	Improvement	[]
[X] No	Savings	[] $	Savings	[] $	Delay	[]

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	[]	Seismic/Stress Analysis	[]	Tank Calibration Manual	[]
Functional Design Criteria	[]	Stress/Design Report	[]	Health Physics Procedure	[]
Operating Specification	[]	Interface Control Drawing	[]	Spares Multiple Unit Listing	[]
Criticality Specification	[]	Calibration Procedure	[]	Test Procedures/Specification	[]
Conceptual Design Report	[]	Installation Procedure	[]	Component Index	[]
Equipment Spec.	[]	Maintenance Procedure	[]	ASME Coded Item	[]
Const. Spec.	[]	Engineering Procedure	[]	Human Factor Consideration	[]
Procurement Spec.	[]	Operating Instruction	[]	Computer Software	[]
Vendor Information	[]	Operating Procedure	[]	Electric Circuit Schedule	[]
OM Manual	[]	Operational Safety Requirement	[]	ICRS Procedure	[]
FSAR/SAR	[]	IEFD Drawing	[]	Process Control Manual/Plan	[]
Safety Equipment List	[]	Cell Arrangement Drawing	[]	Process Flow Chart	[]
Radiation Work Permit	[]	Essential Material Specification	[]	Purchase Requisition	[]
Environmental Impact Statement	[]	Fac. Proc. Samp. Schedule	[]	Tickler File	[]
Environmental Report	[]	Inspection Plan	[]		[]
Environmental Permit	[]	Inventory Adjustment Request	[]		[]

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number Revision
N/A		

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog. Eng. John H. Baldwin	1/25/96	PE	
Cog. Mgr. John G. Kristofzski	1/30/96	QA	
QA Tzu L. Tung / M.W. Barnes	1/26/96	Safety	
Safety		Design	
Environ.		Environ.	
Other		Other	
Production Planning & Control A. D. Rice	1-30-96		
		DEPARTMENT OF ENERGY	
		Signature or a Control Number that tracks the Approval Signature	
		ADDITIONAL	

REVISED 60-DAY SAFETY SCREENING AND FERROCYANIDE RESULTS FOR TANK 241-BY-108, ROTARY SAMPLES CORE 98 AND CORE 104.

John H. Baldwin
Westinghouse Hanford Company, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-87RL10930

EDT/ECN: ECN-629001 UC: 2070
Org Code: 75725 Charge Code: MD378
B&R Code: EW 3120074 Total Pages: 395 8

Key Words: Revised Report for 60-Day Safety Screening Results, Rotary Samples Core 98 and Core 104, Safety Screening and Ferrocyanide Results

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 2/1/96 Date

DATE: STA 4 ID: 3 FEB 05 1996
Release Stamp

Approved for Public Release

THIS PAGE INTENTIONALLY
LEFT BLANK.

RECORD OF REVISION	(1) Document Number WHC-SD-WM-DP-145	Page 1

(2) Title

REVISED 60-DAY SAFETY SCREENING AND FERROCYANIDE RESULTS FOR TANK 241-BY-108, ROTARY SAMPLES CORE 98 AND CORE 104

CHANGE CONTROL RECORD

(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release (5) Cog. Engr.	(6) Cog. Mgr. Date
0	(7) Initial released this document on 10/23/95 per EDT-613451	J. H. Baldwin	J. G. Kristofzski
1 RS	Incorporate ECN-629001	J. H. Baldwin	J.G. Kristofzski 1/30/96

A-7320-005 (08/91) WEF168

THIS PAGE INTENTIONALLY
LEFT BLANK.

Westinghouse
Hanford Company

P.O. Box 1970 Richland, WA 99352

WHC-SD-WM-DP-145, REV. 1

ANALYTICAL SERVICES

REVISED 60-DAY SAFETY SCREENING AND FERROCYANIDE RESULTS FOR TANK 241-BY-108, ROTARY SAMPLES CORE 98 AND CORE 104

Project Coordinator: JOHN H. BALDWIN

Prepared for the U.S. Department of Energy
Office of Environmental Restoration
and Waste Management

by

Westinghouse Hanford Company

THIS PAGE INTENTIONALLY
LEFT BLANK.

TABLE OF CONTENTS

Narrative 1

Sample Data Summary 9

Chain of Custody Forms 54

Photographs 75

Sample Handling 89

Extrusion Worklist # 1926 (Core 97, Segment 1) 90
Extrusion Worklist # 1927 (Core 97 Field Blank) 91
Extrusion Worklist # 1944 (Core 98, Segment 1) 92
Extrusion Worklist # 1945 (Core 98, Segment 2) 93
Extrusion Worklist # 1946 (Core 98, Segment 3) 94
Extrusion Worklist # 1947 (Core 98, Segment 4) 95
Extrusion Worklist # 1948 (Core 99, Segment 1) 96
Extrusion Worklist # 1949 (Core 99, Segment 2) 97
Extrusion Worklist # 1950 (Core 99, Segment 3) 98
Extrusion Worklist # 1964 (Core 99, Segment 4) 99
Extrusion Worklist # 1971 (Core 100, Segment 1) 100
Extrusion Worklist # 2078 (Core 102, Segment 1) 101
Extrusion Worklist # 2079 (Core 104, Segment 1) 102
Extrusion Worklist # 2080 (Core 104, Segment 2) 103
Extrusion Worklist # 2086 (Core 104, Segment 3) 104
Extrusion Worklist # 2087 (Core 104, Segment 4) 105
Extrusion Worklist # 2088 (Core 104, Segment 5) 106

Sample Preparations 107

Homogenization & Drainable Liq. Worklist # 1973, (Core 98, Sement 1) 108
Homogenization Worklist # 1980 (Core 98 Segment 2) 109
Homogenization & Drainable Liq. Worklist # 1986 (Core 98, Segment 2) 110
Homogenization Worklist # 1988 (Core 98, Segment 4) 111
Homogenization & Drainable Liq. Worklist # 1990 (Core 98, Segment 3) 112

Fusion Digestion Worklist # 2021 113
Fusion Digestion Worklist # 2022 114
Fusion Digestion Worklist # 2023 115
Fusion Digestion Worklist # 2056 116
Fusion Digestion Worklist # 2057 117
Fusion Digestion Worklist # 2058 118
Fusion Digestion Worklist # 2072 119
Fusion Digestion Worklist # 2629 120
Fusion Digestion Worklist # 2630 121

Fusion Digestion Worklist # 2631 122
Fusion Digestion Worklist # 2636 123
Fusion Digestion Worklist # 2637 124
Fusion Digestion Worklist # 2639 125
Fusion Digestion Worklist # 2640 126
Fusion Digestion Worklist # 2806 127

Water Digestion Worklist # 2883 128
Water Digestion Worklist # 2884 129
Water Digestion Worklist # 2888 130
Water Digestion Worklist # 2889 131
Water Digestion Worklist # 2890 132
Water Digestion Worklist # 2891 133
Water Digestion Worklist # 2892 134
Water Digestion Worklist # 2893 135
Water Digestion Worklist # 2894 136
Water Digestion Worklist # 2895 137
Water Digestion Worklist # 2896 138
Water Digestion Worklist # 2897 139
Water Digestion Worklist # 3409 140
Water Digestion Worklist # 3605 141

Acid Digestion Worklist # 2024 142
Acid Digestion Worklist # 2076 144
Acid Digestion Worklist # 2077 146
Acid Digestion Worklist # 2860 148
Acid Digestion Worklist # 2861 150
Acid Digestion Worklist # 2862 151
Acid Digestion Worklist # 2863 153
Acid Digestion Worklist # 2864 155
Acid Digestion Worklist # 2865 156

Inorganic Analyses 157

Differential Scanning Calorimetry (DSC)
DSC Worklist # 2527 158

Thermogravimetric Analysis (TGA)
TGA Worklist # 2417 159
TGA Worklist # 2423 163
TGA Worklist # 2427 170
TGA Worklist # 2616 176

Cyanide Analysis (Cn)
Cn Worklist # 2116 180
Cn Worklist # 2206 192
Cn Worklist # 2207 203
Cn Worklist # 2233 215

TABLE OF CONTENTS

Cn Worklist # 2237 226
Cn Worklist # 2741 238
Cn Worklist # 2804 279
Cn Worklist # 2805 260
Cn Worklist # 2816 271
Cn Worklist # 2817 282
Cn Worklist # 2866 293
Cn Worklist # 2944 304
Cn Worklist # 2945 315
Cn Worklist # 2946 323

Ion Chromatographic Analysis (IC)
IC Worklist # 2278 331
IC Worklist # 2571 347
IC Worklist # 2991 364
IC Worklist # 2992 384
IC Worklist # 2994 405
IC Worklist # 3182 421
IC Worklist # 3184 437
IC Worklist # 3185 455
IC Worklist # 3188 470
IC Worklist # 3189 488
IC Worklist # 3191 504
IC Worklist # 4166 520

Inductively Coupled Plasma Spectrograhic Analysis (ICP)
ICP Worklist # 2059 (Direct) 532
ICP Worklist # 2107 (Direct) 539
ICP Worklist # 2097 (Acid) 561
ICP Worklist # 2098 (Acid) 569
ICP Worklist # 2099 (Acid) 576
ICP Worklist # 2876 (Acid) 583
ICP Worklist # 2877 (Acid) 594
ICP Worklist # 2880 (Acid) 608
ICP Worklist # 2881 (Acid) 634

Total Organic Carbon Analysis (TOC)
TOC Worklist # 2047 647
TOC Worklist # 2100 662
TOC Worklist # 2111 671
TOC Worklist # 2205 688
TOC Worklist # 2217 705
TOC Worklist # 2221 720
TOC Worklist # 2908 739
TOC Worklist # 2977 751
TOC Worklist # 2978 768
TOC Worklist # 2979 785

TOC Worklist # 2980 800
TOC Worklist # 3009 821
TOC Worklist # 3217 838
TOC Worklist # 3789 849

Radiochemical Analyses 860

Total Alpha Analysis (AT)
AT Worklist # 2063 861
AT Worklist # 2064 871
AT Worklist # 2068 881
AT Worklist # 2069 891
AT Worklist # 2101 897
AT Worklist # 2103 903
AT Worklist # 2232 910
AT Worklist # 2794 916
AT Worklist # 2795 926
AT Worklist # 2796 936
AT Worklist # 2797 947
AT Worklist # 2820 957
AT Worklist # 2821 967
AT Worklist # 2824 973
AT Worklist # 2899 983

PART II 60-Day Safety Screening and Ferrocyanide Results for Tank 241-BY-108, Rotary Samples, Core 98 and Core 104 2-1

Narrative 2-4

Sample Data Summary 2-11

Inorganic Analyses 2-43

Differential Scanning Calorimetry (DSC)
DSC Worklist # 2702 2-44
DSC Worklist # 2867 2-45
DSC Worklist # 2868 2-47
DSC Worklist # 2869 2-49
DSC Worklist # 2870 2-50
DSC Worklist # 2001 2-51
DSC Worklist # 2025 2-57
DSC Worklist # 2026 2-63
DSC Worklist # 2027 2-71
DSC Worklist # 2032 2-79
DSC Worklist # 2038 2-84
DSC Worklist # 2112 2-89
DSC Worklist # 2114 2-95
DSC Worklist # 2115 2-103

DSC Worklist # 2142 2-107
DSC Worklist # 2273 2-115
DSC Worklist # 2317 2-120
DSC Worklist # 2318 2-126
DSC Worklist # 2320 2-134
DSC Worklist # 2321 2-141
DSC Worklist # 2322 2-149
DSC Worklist # 2323 2-156
DSC Worklist # 2324 2-162

Thermogravimetric Analysis (TGA)
TGA Worklist # 2002 2-167
TGA Worklist # 2028 2-173
TGA Worklist # 2029 2-177
TGA Worklist # 2030 2-184
TGA Worklist # 2033 2-188
TGA Worklist # 2034 2-196
TGA Worklist # 2035 2-203
TGA Worklist # 2036 2-209
TGA Worklist # 2037 2-214
TGA Worklist # 2155 2-221
TGA Worklist # 2157 2-227
TGA Worklist # 2158 2-231
TGA Worklist # 2159 2-239
TGA Worklist # 2160 2-244
TGA Worklist # 2161 2-252
TGA Worklist # 2200 2-258
TGA Worklist # 2251 2-264
TGA Worklist # 2252 2-268
TGA Worklist # 2269 2-276
TGA Worklist # 2276 2-280
TGA Worklist # 2418 2-285
TGA Worklist # 2419 2-293
TGA Worklist # 2420 2-299
TGA Worklist # 2421 2-305
TGA Worklist # 2422 2-312
TGA Worklist # 2424 2-318
TGA Worklist # 2425 2-324
TGA Worklist # 2426 2-330
TGA Worklist # 2428 2-337
TGA Worklist # 2615 2-341
TGA Worklist # 2685 2-347

TABLE OF CONTENTS

PART III Single Shell Tank Waste Characterization for Tank 241-BY-108 Performed and Reported to Westinghouse Hanford by Pacific Northwest Laboratory 3-1

Introduction 3.9

Physical Data 3-16
Sample Receipt and Preparation 3-17
Thermal Analysis 3-22
Density 3-72

Inorganic Chemistry 3-74
Inductively Couple Plasma (ICP) Spectrometry Analysis 3-75
Ion Chromatographic Analysis 3-90
Total Cyanide Analysis 3-93
Total Organic Carbon, Total Inorganic Carbon & Total Carbon Analysis 3-95

Radiochemistry 3-104
Radiochemical Analysis 3-105
Total Alpha Analysis 3-105
Plutonium Analyses 3-107
Total Beta Analyses 3-108
Sr-90 Analyses 3-108
Gamma Energy Analyses 3-109
Uranium Analyses 3-110

Appendices 3-116

Appendix A - Supporting Documentation 3-119

A1 - Signature List 3-120
A2 - WHC Chains of Custody 3-123
A3 - PNL Chains of Custody 3-125
A4 - Test Instructions 3-148
A5 - Sample Prep Data Sheets 3-169

Appendix B - Physical Properties 3-215

B1 - Introduction 3-216
B2 - DSC/TGA Analysis 3-218
B3 - Bulk Density 3-269

Appendix C - Inorganic 3-277

C1 - Introduction 3-278
C2 - ICP Analysis 3-280
C3 - IC Analysis 3-1351
C4 - Total Cyanide Analysis 3-1771

TABLE OF CONTENTS

C5 - TOC/TIC/TC Analysis 3-1802

Appendix D - Radiochemistry 3-1825

D1 - Introduction 3-1826
D2 - Total Alpha Analysis 3-1828
D3 - AEA Analysis 3-1897
D4 - Total Beta Analysis 3-2057
D5 - Strontium-90 Analysis 3-2150
D6 - GEA Analysis 3-2222
D7 - Uranium Analysis 3-2383
D8 - Radiochemistry Calibratiom and Control Chart Documentation . 3-2444

This document consists of three sections.

Section I consists of pages 1 through 999, plus pages 85.1 and 796.1.

Section II consists of pages 2-1 through 2-350.

Section III consists of pages 3-1 through 3-2597, plus page 3-1911.1 and pages 3-2560, 3-2561 and 3-2562 were intentionally blank.

Total number of pages for this document are 3958, includes cover page and table of contents.

THIS PAGE INTENTIONALLY
LEFT BLANK.

NARRATIVE

THIS PAGE INTENTIONALLY
LEFT BLANK.

REPORT FOR TANK 241-BY-108 ROTARY SAMPLES, CORES 98 AND 104

ANALYTICAL SUMMARY

Core samples from tank 241-BY-108 (BY-108) were received at the 222-S Laboratories and underwent analysis to satisfy the analytical requirements of the *Tank 241-BY-108 Rotary Mode Core Sampling and Analysis Plan* (SAP)[1]). Applicable data quality objectives for this Tank Characterization Plan (TCP) included Safety Screening, Ferrocyanide, Pretreatment and Organic.

As required by the *Tank Safety Screening Data Quality Objective* (DQO) [2], a 95% confidence interval was calculated for those sample results exceeding an action limit. The precision requirements of the SAP were satisfied by comparing a one-sided 95% confidence interval of the mean for each sample to the action limit, rather than requiring a relative percent difference between sample and duplicate results of less than 10%. The Differential Scanning Calorimetry (DSC) analysis at the 95% confidence level found the DSC results of three samples exceeded the maximum limit stated in the DQO. Table 4, as presented herein has been updated to reflect corrected final results. Notifications, by the chemist and project coordinator concerning DSC values that exceeded the action limit were made as required.

Before samples were removed from BY-108, an industrial hygiene technician field tested the tank vapors. The technician purged the vapor probe sample tube for five minutes then field measured vapor stream contents using a combustible gas indicator (CGI) and an organic vapor meter (OVM). The technician reported an LEL of 5.0%, an oxygen content of 20 %, and a total organic carbon content of 71.8 ppm using the OVM. The tank headspace gas and vapor characterization results are reported in reference [3]

When compared to the decision rules in the safety screening DQO, the tank can be considered "safe".

SCOPE

This document provides additional analytical data not provided in the 60-day report, reference [4] for the tank BY-108 core samples collected on July 27 through August 16, 1995 (Core 98, Segments 1-4 and Core 104 Segments 1-5). The 222-S Laboratories received, extruded, and analyzed each sample in accordance with the TCP. Partial BY-108 core segments from cores 97, 100 and 102 were received from BY-108 but were not analyzed as they duplicated segments of cores 98 and 104. Core 99, a core taken from the same riser as core 98, was sent to Pacific Northwest Laboratory (PNL) 325 Building for analysis and the results of those analyses are reported by PNL in reference [5].

SAMPLE RECEIPT, EXTRUSION, AND SUBSAMPLING

The subject core samples reported herein were taken from Tank BY-108. The two samples are identified as Core 98 and Core 104. These core segment samples were received at the 222-S Laboratory between July 28 and August 21, 1995 and extruded between August 1 and August 24, 1995. Table 1 provides the sampling and extrusion report for the two core samples. With the exception of segment 1, of both cores, the recovery was good and each segment was broken into quarter segments and homogenized. Segment 1, for both cores, was treated as a "whole" segment and homogenized. Additional extrusion results are presented in Table 2.

As shown in Table 1, there were some quarter segments missing upon extrusion, that is, there was a gap where that quarter segment would have been expected. Where drainable liquid was obtained, it is believed the liquid originally occupied this gap and accounts for the missing quarter segment. Subsamples for laboratory analyses and archiving were created per the tank SAP.

TABLE 1: SUMMARY DESCRIPTION OF AUGER SAMPLES

Core and Segment* Number	Riser	Sample Total Weight (Grams)	Sample Collection General Description
Core 98 Segment 1(W)	12A	366.8	Extruded approx. 5-6 inches of sample. Sample was wet. Texture of sample was crystalline and tended to "melt" on the sample tray. Sample was light brown to dirty white in color. Collected 170 ml of drainable liquid. Color of liquid was Yellow and opaque.
Core 98 Segment 2 (A),(C), (D)	12A	416.0	Collected 100 mL of drainable liquid, which was yellow brown in color and opaque. Extruded approx. 12 inches of sample. Facies present; sample was divided into quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown, beige and dirty white saltcake.
Core 98 Segment 3 (A),(C), (D)	12A	406.5	Collected 60 mL of drainable liquid, which was light brown in color and opaque. Extruded approx. 16.5 inches of sample. Facies present; Sample was divided into quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown, beige and dirty white saltcake.

Core 98 Segment 4 (A),(B), (C),(D)	12A	490.0	No drainable liquid observed or collected. Extruded approx. 19.0 inches of sample; sample retained its shape. Facies present; sample was divided into quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown sludge with white saltcake.
Core 104 Segment 1(W)	7	131.3	Extruded approx. 6-7 inches of sample. Sample was tan in color, dry, crystalline and granular in shape. No drainable liquids.
Core 104 Segment 2 (A),(B), (C)	7	383.5	No drainable liquid. Extruded approx. 19.0 inches of sample; Upper half segment retained its shape, lower half segment crumbled during extrusion. Facies present in upper quarter segment (crumbly saltcake to sludge). Sample was divided into three quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown sludge with saltcake.
Core 104 Segment 3 (A),(C), (D)	7	288.8	No drainable liquid. Extruded approx. 17.0 inches of sample; sample was wet, granular and did not retained its shape. Sample was divided into three quarter segments. Sample texture resembled a brown saltcake.
Core 104 Segment 4 (A),(C), (D)	7	318.3	No drainable liquid. Extruded approx. 18.0 inches of sample. Sample was wet, granular, crumbly and ranged from a yellow to brown crystalline saltcake. Sample was divided into three quarter segments.
Core 104 Segment 5 (A),(B), (C),(D)	7	422.7	No drainable liquid. Extruded approx. 18 inches of sample. Lower half retained its shape and was medium to dark brown, whereas the upper half was dark brown and partially retained its shape. Texture of material resembled a sludge. Sample was divided into four quarter segments.

* (x) represents the quarter segment where "W" represents a whole segment and "A", "B", "C" and "D" represent the quarter segment location with "A" the top of the segment and "D" the bottom of the segment.

ANALYTICAL RESULTS

Analytical results are presented in Table 2. Note - Column A# refers to the preparation method (Fusion, Acid digest or Water digest).

Total Organic Carbon (TOC)

TOC analyses were performed in duplicate according to procedure LA-342-100, Rev. A-0. The RPD for sample S95T001977 exceeded the required ± 10% range. A "triplicate" analysis was performed with a TOC result of 1.39 ug/g which closely resembles the "duplicate" value.

Cyanide

Cyanide analyses were performed in duplicate according to procedure LA-695-102, Rev. D-0. The cyanide levels peaked at 3080 ug/g in segment 4 of core 98. Cyanide levels were generally very low relative to the limit of 39,000 ug/g throughout the rest of the core.

Core 104 Segment 5, which is at the same depth in the tank as core 98 segment 4, did not have a coresponding peak in the cyanide level. The cyanide levels in core 104 were uniformly low with a peak in segment 2C of 390.0 ug/g. Cyanide levels were generally very low relative to the limit of 39,000 ug/g throughout the rest of the core.

Some Relative Percent Difference (RPD) drifted outside the preferred ± 10% band but were within the laboratory control limit. Spike recoveries were within laboratory control limits of ± 20% for the majority of samples. Due to the low cyanide levels, no re-runs were made for samples with spike recoveries or RPD's outside the control band.

Inductively Coupled Plasma (ICP) Acid Digest

An ICP for all metals was performed using procedure LA-505-151, Rev. D-3. Although the SAP only required ICP results for Nickel in sludge, Nickel was analyzed for in all segments of Core 98. In addition, ICP results for all metals were obtained for all segments of Core 104. A single spike was performed for a batch of samples with a similar matrix. The high levels of Sodium in the ICP samples required high dilutions. The high dilution in turn caused poor (or meaningless) spike recoveries for those elements that were either very high relative to the detection limit or close to the detection limit. Standard recoveries and RPD's were also similarly affected for these elements.

The out of range standard recovery for Silicon is most likely a result of hydrofluoric acid, present in the standard, leaching silicate from the boron silicate glassware used for the standard prep. Hydrofluoric acid is not used in the preparation of the samples. The out of range standard recovery for Sodium is a result of normally expected contamination due to the natural

abundance of this material in the environment. A few other elements had standard recoveries slightly below 90% but are the best achievable results in light of the high dilutions.

The ICP also analyzed for Lithium to check for contamination of the samples by Hydrostatic Head Fluid (HHF). HHF was used to rinse the drill string. Lithium was below detection limits for all but the top segments of cores 98 and 104. The top segments of both cores showed small levels of lithium, indicating intrusion into those samples of the drill string wash water.

Ion Chromatography (IC)

Ion chromatography measurements were performed using procedure LA-535-105, Rev. D-1 to look for anions of Bromide, Chloride, Fluoride, Nitrite, Nitrate, Oxalate, Phosphate, and Sulfate. Standard and spike recoveries were generally good. The RPD's varied considerably due to the heterogeneity of the tank material. Single spikes were performed for each batch of samples with a similar matrix.

Flame Ionization Detector/Gas Chromatograph FID/GC

An organic screen was performed on the solid samples to determine if organic material, originally floating on the water surface, had been trapped in the saltcake or sludge as the water had been drained from the tank. The organics analyzed for were normal Nonane, Decane, Undecane, Dodecane, Tridecane, Tetradecane, Pentadecane and Tri-n-buylphosphate.

The organic results and organic Quality Assurance (QA) are presented in Table 2, however, the organic analyses do not translate well in this format. Standard recovery is not shown in the table as the instrument is calibrated against a suite of organic compounds where the recovery of each must be within 15%. A batch of samples are then analyzed against that calibration.

In organic analysis, the spike is actually a triplicate sample with the addition of Nonane and Tri-n-butylphosphate. Therefore the only "Spikes" that are shown are those for Nonane and Tri-n butylphosphate. The "Spikes" for these compounds represent the percent recovery of those compounds from that "spiked" sample. Recoveries of ± 20% are considered very good.

The manor in which sample results are reported also differ from those of the inorganic samples. A "U" followed by a value of zero is interpreted as "Undetected" i.e. none of this compound was detected in the sample. A "J" followed by a non-zero value is interpreted as an "Estimated Concentration" i.e. the compound is clearly present but the sample size used in the measurement did not produce a value that exceeded the detection limit. An compound with a value that is not preceded with a "U" or "J" indicates a reproducible measurement of the concentration of that compound. The RPD's in the organic analysis reflected the same heterogeneity of the material as the inorganic analyses.

All Organic QA and sample analysis results are retained in an electronic format and are archived by the Organic Chemistry Department at 222-S Laboratory. Additional information is available upon request.

Responsible Project Coordinator: J. H. Baldwin

REFERENCE

[1] J. H. Baldwin, *Tank 241-BY-108 Rotary Mode Core Sampling and Analysis Plan*, WHC-SD-WM-TSAP-059, Rev. 0, Westinghouse Hanford Company, Richland, Washington, July 19, 1995.

[2] H. Babad, J. W. Hunt, and K. S. Redus, *Tank Safety Screening Data Quality Objective*, WHC-SD-WM-SP-004, Rev. 1, Westinghouse Hanford Company, Richland, Washington, April 27, 1995.

[3] J. L. Huckaby, D. R. Bratzel, *Tank 241-BY-108 Headspace Gas and Vapor Characterization Results for Samples Collected in March 1994 and October 1994.*, WHC-SD-WM-ER-422, Rev. 2, UC-2070, Westinghouse Hanford Company, Richland, Washington, September 26, 1995.

[4] J. H. Baldwin, *60-Day Safety Screening and Ferrocyanide Results for Tank 241-BY-108, Rotary Samples, Core 98 and Core 104*, WHC-SD-WM-DP-145, Rev. 0, Westinghouse Hanford Company, Richland, Washington, October 18, 1995.

[5] K. L. Silvers, L. R. Greenwood, R. T. Steele, J. M. Tingey, M. W. Urie, *Single Shell Tank Waste Chacterization, Core 99, Tank BY-108* Rev. 1, Pacific Northwest Laboratory, Richland, Washington, September 29, 1995.

Table 4. 95% Upper Confidence Interval Limits for DSC (Units are in joules/g).

Sample Description	Sample Number	Differential Scanning Calorimetry (DSC) Dry Basis				TGA* Average
		Sample Result (J/g)	Dup. Result (J/g)	Average Result (J/g)	95 % UL	(%H2O)
Quarter Segment B from Core 98 Segment 4	S95T001420	509.1	438.1	473.6	697.75	35.61
Rerun	S95T001420	481.3	409.5	445.4	672.0	35.61
Quarter Segment B from Core 104 Segment 5	S95T001976	593.5	552.6	573.05	702.17	36.66
Quarter Segment C from Core 104 Segment 5	S95T001977	548.7	507.9	528.3	657.1	35.50

TGA = Thermogravimetric Analysis
Quarter Segment B is approximately the second 5 inches of material of the segment. Quarter segment C is approximately the third 5 inches of material from the top of the segment.

THIS PAGE INTENTIONALLY
LEFT BLANK.

SAMPLE DATA SUMMARY

THIS PAGE INTENTIONALLY
LEFT BLANK.

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 97
SEGMENT #: FB

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001365			TOC by Persulfate/Coulometry	ug/mL	92.33	16.60	< 40	<40	n/a	n/a	n/a	40.00	n/a
S95T001365			% Water by TGA using Mettler	%	101.4	n/a	100.0	100.0	100.0	0.00	n/a	n/a	n/a
S95T001365			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001365			DSC Exotherm using Mettler	Joules/g	98.77	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001365		D	Lithium-ICP-Acid Dil.	ug/mL	100.5	-2.00e-04	4.35e-02	4.15e-02	4.25e-02	4.71	99.87	2.00e-02	n/a
S95T001365			Sulfate by IC - Dionex 4000i	ug/mL	100.5	<6.78e-01	< 4.07e0	7.300	n/a	n/a	113.8	4.070	n/a
S95T001365			Phosphate by IC - Dionex 4000i	ug/mL	103.4	<5.96e-01	13.40	13.20	13.30	1.50	112.3	3.580	n/a
S95T001365			Oxalate by IC - Dionex 4000i	ug/mL	102.8	<4.96e-01	< 2.98e0	<2.98	n/a	n/a	116.6	2.980	n/a
S95T001365			Nitrate by IC - Dionex 4000i	ug/mL	100.3	<6.99e-01	217.0	214.0	215.5	1.39	158.3	4.190	n/a
S95T001365			Nitrite by IC - Dionex 4000i	ug/mL	102.1	<5.47e-01	147.0	143.0	145.0	2.76	144.0	3.280	n/a
S95T001365			Fluoride by IC - Dionex 4000i	ug/mL	103.9	<6.20e-02	4.20e-01	4.41e-01	4.30e-01	4.88	37.70	3.72e-01	n/a
S95T001365			Chloride by IC - Dionex 4000i	ug/mL	99.11	<8.30e-02	8.880	8.610	8.745	3.09	125.3	4.98e-01	n/a
S95T001365			Bromide by Ion Chromatograph	ug/mL	102.4	<6.32e-01	< 3.79e0	<3.79	n/a	n/a	106.1	3.790	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 98
SEGMENT #: 1(DL)

TABLE 2

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001373			TOC by Persulfate/Coulometry	ug/mL	96.33	29.80	2.64e+03	2.74e+03	2.69e+03	3.72	n/a	40.00	n/a
S95T001373			% Water by TGA on Perkin Elmer	%	101.1	n/a	31.90	34.04	32.97	6.49	n/a	n/a	n/a
S95T001373			DSC Exotherm on Perkin Elmer	Joules/g	97.54	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001373			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001373		D	Lithium-ICP-Acid Dil.	ug/mL	101.8	5.00e-04	< 4.0100	<4.0100	n/a	n/a	93.84	4.010	n/a
S95T001373			Sulfate by IC - Dionex 4000i	ug/mL	102.8	<6.78e-01	< 6.92e3	<6.92e3	n/a	n/a	103.5	6.92e+03	n/a
S95T001373			Phosphate by IC - Dionex 4000i	ug/mL	104.5	<5.96e-01	< 6.08e3	<6.08e3	n/a	n/a	106.4	6.08e+03	n/a
S95T001373			Oxalate by IC - Dionex 4000i	ug/mL	101.2	<4.96e-01	< 5.06e3	<5.06e3	n/a	n/a	100.1	5.06e+03	n/a
S95T001373			Nitrate by IC - Dionex 4000i	ug/mL	104.7	<6.99e-01	3.56e+05	3.60e+05	3.58e+05	1.12	-4.30e+01	7.13e+03	n/a
S95T001373			Nitrite by IC - Dionex 4000i	ug/mL	102.9	<5.47e-01	9.09e+04	9.15e+04	9.12e+04	0.66	61.50	5.58e+03	n/a
S95T001373			Fluoride by IC - Dionex 4000i	ug/mL	102.7	<6.20e-02	< 6.32e2	<6.32e2	n/a	n/a	104.8	632.0	n/a
S95T001373			Chloride by IC - Dionex 4000i	ug/mL	101.0	<8.30e-02	4.92e+03	5.02e+03	4.97e+03	2.01	106.1	847.0	n/a
S95T001373			Bromide by Ion Chromatograph	ug/mL	102.5	<6.32e-01	< 6.45e3	<6.45e3	n/a	n/a	101.7	6.45e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 98
SEGMENT #: 1(W)

TABLE 2

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001390			TOC by Persulfate/Coulometry	ug/g	n/a	n/a	2.33e+03	2.23e+03	2.28e+03	4.39	n/a	40.00	n/a
S95T001390			% Water by TGA on Perkin Elmer	%	96.42	n/a	21.85	19.76	20.80	10.0	n/a	n/a	n/a
S95T001390			DSC Exotherm on Perkin Elmer	Joules/g	100.1	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001390			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001390			Cyanide by Microdist. & Spec.	ug/g	95.39	5.40e-02	350.0	364.0	357.0	3.92	116.0	2.100	n/a
S95T001391	F		Alpha of Digested Solid	uCi/g	108.2	1.34e-03	2.22e-03	3.71e-03	2.97e-03	50.3	76.70	2.90e-03	90.8
S95T001483	A		Lithium -ICP-Acid Digest	ug/g	88.75	3.00e-04	18.42	17.60	18.01	4.54	85.17	4.880	n/a
S95T001483	A		Nickel -ICP-Acid Digest	ug/g	92.00	1.59e-02	253.6	244.8	249.2	3.53	84.64	9.770	n/a
S95T002289			Undecane (C11)	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	n/a	427.0	n/a
S95T002289			Tridecane (C13)	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	n/a	427.0	n/a
S95T002289			Tetradecane (C14)	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	n/a	427.0	n/a
S95T002289			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	87.56	427.0	n/a
S95T002289			Pentadecane (C15)	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	n/a	427.0	n/a
S95T002289			Nonane (C9)	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	95.14	427.0	n/a
S95T002289			Dodecane (C12)	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	n/a	427.0	n/a
S95T002289			Decane (C10)	ug/g	n/a	0.00e+00	U 427.00	444.00U	n/a	n/a	n/a	427.0	n/a
S95T002484	W		Bromide by Ion Chromatograph	ug/g	97.56	<1.26e-01	<6.229e+0	<6.41e2	n/a	n/a	93.22	622.9	n/a
S95T002484	W		Chloride by IC - Dionex 4000i	ug/g	102.3	<1.70e-02	1.03e+03	1.32e+03	1.18e+03	24.7	99.15	84.05	n/a
S95T002484	W		Fluoride by IC - Dionex 4000i	ug/g	102.0	<1.30e-02	4.10e+03	3.91e+03	4.01e+03	4.74	98.19	64.26	n/a
S95T002484	W		Nitrite by IC - Dionex 4000i	ug/g	97.76	<1.07e-01	1.70e+04	2.17e+04	1.94e+04	24.3	98.96	528.9	n/a
S95T002484	W		Nitrate by IC - Dionex 4000i	ug/g	96.42	4.37e-01	1.55e+05	1.44e+05	1.50e+05	7.36	96.92	692.1	n/a
S95T002484	W		Oxalate by IC - Dionex 4000i	ug/g	101.4	<1.05e-01	5.41e+03	4.61e+03	5.01e+03	16.0	101.5	519.0	n/a
S95T002484	W		Phosphate by IC - Dionex 4000i	ug/g	93.96	<2.96e-01	8.21e+03	1.00e+04	9.11e+03	19.7	93.88	1.46e+03	n/a
S95T002484	W		Sulfate by IC - Dionex 4000i	ug/g	103.2	<1.36e-01	6.66e+03	5.76e+03	6.21e+03	14.5	92.97	672.3	n/a

12

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 2(A)

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001404			TOC by Persulfate/Coulometry	ug/g	97.67	22.50	3.60e+03	3.62e+03	3.61e+03	0.55	n/a	80.00	n/a
S95T001404			% Water by TGA on Perkin Elmer	%	100.8	n/a	14.64	14.87	14.75	1.56	n/a	n/a	n/a
S95T001404			DSC Exotherm on Perkin Elmer	Joules/g	95.68	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001404			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001404			Cyanide by Microdist. & Spec.	ug/g	107.4	<3.60e-02	293.0	302.0	297.5	3.03	109.4	24.60	n/a
S95T001405		F	Alpha of Digested Solid	uCi/g	94.98	<2.26e-03	2.38e-03	1.86e-03	2.12e-03	24.5	81.30	3.75e-03	117.5
S95T001484		A	Lithium -ICP-Acid Digest	ug/g	88.75	3.00e-04	< 4.8400	<4.8450	n/a	n/a	n/a	4.840	n/a
S95T001484		A	Nickel -ICP-Acid Digest	ug/g	92.00	1.59e-02	337.9	359.4	348.7	6.15	n/a	9.680	n/a
S95T002290			Undecane (C11)	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	n/a	243.0	n/a
S95T002290			Tridecane (C13)	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	n/a	243.0	n/a
S95T002290			Tetradecane (C14)	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	n/a	243.0	n/a
S95T002290			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	88.98	243.0	n/a
S95T002290			Pentadecane (C15)	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	n/a	243.0	n/a
S95T002290			Nonane (C9)	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	88.86	243.0	n/a
S95T002290			Dodecane (C12)	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	n/a	243.0	n/a
S95T002290			Decane (C10)	ug/g	n/a	0.00e+00	U 243.00	179.00U	n/a	n/a	n/a	243.0	n/a
S95T002490		W	Bromide by Ion Chromatograph	ug/g	97.56	<1.26e-01	<6.776e+0	<6.70e2	n/a	n/a	n/a	677.6	n/a
S95T002490		W	Chloride by IC - Dionex 4000i	ug/g	102.3	<1.70e-02	1.36e+03	1.32e+03	1.34e+03	2.99	n/a	91.39	n/a
S95T002490		W	Fluoride by IC - Dionex 4000i	ug/g	102.0	<1.30e-02	6.94e+03	6.63e+03	6.78e+03	4.57	n/a	69.92	n/a
S95T002490		W	Nitrite by IC - Dionex 4000i	ug/g	97.76	<1.07e-01	2.19e+04	2.12e+04	2.16e+04	3.25	n/a	575.4	n/a
S95T002490		W	Nitrate by IC - Dionex 4000i	ug/g	96.42	4.37e-01	2.20e+05	2.48e+05	2.34e+05	12.0	n/a	752.9	n/a
S95T002490		W	Oxalate by IC - Dionex 4000i	ug/g	101.4	<1.05e-01	8.03e+03	8.16e+03	8.09e+03	1.61	n/a	564.6	n/a
S95T002490		W	Phosphate by IC - Dionex 4000i	ug/g	93.96	<2.96e-01	1.17e+04	4.47e+03	8.10e+03	89.4	n/a	1.59e+03	n/a
S95T002490		W	Sulfate by IC - Dionex 4000i	ug/g	103.2	<1.36e-01	1.16e+04	1.16e+04	1.16e+04	0.00	n/a	731.3	n/a

13

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 2(C)

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec.%	Det Limit	Count Err%
S95T001399			TOC by Persulfate/Coulometry	ug/g	97.67	22.50	5.50e+03	6.03e+03	5.76e+03	9.19	n/a	80.00	n/a
S95T001399			% Water by TGA using Mettler	%	100.7	n/a	43.90	39.74	41.82	9.95	n/a	n/a	n/a
S95T001399			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	91.10	85.60	88.35	6.23	n/a	n/a	n/a
S95T001399			DSC Exotherm using Mettler	Joules/g	93.15	n/a	53.00	49.80	51.40	6.23	n/a	n/a	n/a
S95T001399			Cyanide by Microdist. & Spec.	ug/g	111.7	1.29e-01	201.0	195.0	198.0	3.03	97.10	106.0	n/a
S95T001400	F		Alpha of Digested Solid	uCi/g	94.98	<2.26e-03	< 2.63e-3	3.98e-03	n/a	n/a	82.80	3.92e-03	358.8
S95T001485		A	Lithium -ICP-Acid Digest	ug/g	88.75	3.00e-04	< 4.9750	<4.8030	n/a	n/a	n/a	4.980	n/a
S95T001485		A	Nickel -ICP-Acid Digest	ug/g	92.00	1.59e-02	447.4	469.1	458.3	4.73	n/a	9.950	n/a
S95T002291			Undecane (C11)	ug/g	n/a	n/a	J 11.800	9.980J	n/a	n/a	n/a	282.0	n/a
S95T002291			Tridecane (C13)	ug/g	n/a	n/a	J 55.900	47.600J	n/a	n/a	n/a	282.0	n/a
S95T002291			Tetradecane (C14)	ug/g	n/a	n/a	J 49.600	41.200J	n/a	n/a	n/a	282.0	n/a
S95T002291			Tri-n-butylphosphate	ug/g	n/a	n/a	U 282.00	307.00U	n/a	n/a	125.1	282.0	n/a
S95T002291			Pentadecane (C15)	ug/g	n/a	n/a	J 22.100	18.500J	n/a	n/a	n/a	282.0	n/a
S95T002291			Nonane (C9)	ug/g	n/a	n/a	U 282.00	307.00U	n/a	n/a	122.4	282.0	n/a
S95T002291			Dodecane (C12)	ug/g	n/a	n/a	J 39.400	30.100J	n/a	n/a	n/a	282.0	n/a
S95T002291			Decane (C10)	ug/g	n/a	n/a	U 282.00	307.00U	n/a	n/a	n/a	282.0	n/a
S95T002491		W	Bromide by Ion Chromatograph	ug/g	99.30	<1.26e-01	<1.031e+0	<9.91e2	n/a	n/a	97.74	1.03e+03	n/a
S95T002491		W	Chloride by IC - Dionex 4000i	ug/g	109.1	<1.70e-02	1.78e+03	1.55e+03	1.67e+03	13.8	102.5	139.1	n/a
S95T002491		W	Fluoride by IC - Dionex 4000i	ug/g	101.9	<1.30e-02	1.32e+04	8.81e+03	1.10e+04	39.9	71.32	106.4	n/a
S95T002491		W	Nitrite by IC - Dionex 4000i	ug/g	91.31	<1.07e-01	2.35e+04	2.38e+04	2.36e+04	1.27	96.05	875.8	n/a
S95T002491		W	Nitrate by IC - Dionex 4000i	ug/g	97.23	<1.40e-01	1.12e+05	1.94e+05	1.53e+05	53.6	99.16	1.15e+03	n/a
S95T002491		W	Oxalate by IC - Dionex 4000i	ug/g	109.4	<1.05e-01	1.28e+04	1.51e+04	1.40e+04	16.5	112.2	859.4	n/a
S95T002491		W	Phosphate by IC - Dionex 4000i	ug/g	100.2	<2.96e-01	1.45e+04	1.61e+04	1.53e+04	10.5	106.5	2.42e+03	n/a
S95T002491		W	Sulfate by IC - Dionex 4000i	ug/g	99.05	<1.36e-01	3.99e+04	2.20e+04	3.09e+04	57.8	98.10	1.11e+03	n/a

14

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 2(D)

SEGMENT PORTION: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001393			% Water by TGA using Mettler	%	98.84	n/a	38.92	36.38	37.65	6.75	n/a	n/a	n/a
S95T001396			TOC by Persulfate/Coulometry	ug/g	97.67	22.50	9.06e+03	9.76e+03	9.41e+03	7.44	100.0	80.00	n/a
S95T001396			% Water by TGA on Perkin Elmer	%	100.8	n/a	8.560	9.360	8.960	8.93	n/a	n/a	n/a
S95T001396			% Water by TGA using Mettler	%	101.7	n/a	40.98	44.12	42.55	7.38	n/a	n/a	n/a
S95T001396			DSC Exotherm on Perkin Elmer	Joules/g	98.81	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001396			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001396			Cyanide by Microdist. & Spec.	ug/g	95.39	5.40e-02	351.0	340.0	345.5	3.18	93.50	2.700	n/a
S95T001398	F		Alpha of Digested Solid	uCi/g	108.2	1.34e-03	2.67e-02	2.82e-02	2.75e-02	5.46	87.40	6.96e-03	39.6
S95T001486		A	Lithium -ICP-Acid Digest	ug/g	88.75	3.00e-04	< 4.8080	<4.6300	n/a	n/a	88.52	4.810	n/a
S95T001486		A	Nickel -ICP-Acid Digest	ug/g	92.00	1.59e-02	1.55e+03	1.55e+03	1.55e+03	0.13	116.1	9.620	n/a
S95T002292			Undecane (C11)	ug/g	n/a	0.00e+00	J 66.600	44.400J	n/a	n/a	n/a	339.0	n/a
S95T002292			Tridecane (C13)	ug/g	n/a	0.00e+00	J 334.000	1.78e02J	n/a	n/a	n/a	339.0	n/a
S95T002292			Tetradecane (C14)	ug/g	n/a	0.00e+00	J 196.000	1.89e02J	n/a	n/a	n/a	339.0	n/a
S95T002292			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 339.00	344.00U	n/a	n/a	97.11	339.0	n/a
S95T002292			Pentadecane (C15)	ug/g	n/a	0.00e+00	J 76.780	71.500J	n/a	n/a	n/a	339.0	n/a
S95T002292			Nonane (C9)	ug/g	n/a	0.00e+00	U 339.00	344.00U	n/a	n/a	96.42	339.0	n/a
S95T002292			Dodecane (C12)	ug/g	n/a	0.00e+00	J 140.000	1.33e02J	n/a	n/a	n/a	339.0	n/a
S95T002292			Decane (C10)	ug/g	n/a	0.00e+00	J 10.200	9.310J	n/a	n/a	n/a	339.0	n/a
S95T002492		W	Bromide by Ion Chromatograph	ug/g	99.30	<1.26e-01	<1.245e+0	<1.18e3	n/a	n/a	n/a	1.24e+03	n/a
S95T002492		W	Chloride by IC - Dionex 4000i	ug/g	109.1	<1.70e-02	2.18e+03	2.11e+03	2.14e+03	3.26	n/a	168.0	n/a
S95T002492		W	Fluoride by IC - Dionex 4000i	ug/g	101.9	<1.30e-02	1.14e+04	1.74e+04	1.44e+04	41.7	n/a	128.5	n/a
S95T002492		W	Nitrite by IC - Dionex 4000i	ug/g	91.31	<1.07e-01	3.26e+04	3.19e+04	3.22e+04	2.17	n/a	1.06e+03	n/a
S95T002492		W	Nitrate by IC - Dionex 4000i	ug/g	97.23	<1.40e-01	2.29e+05	1.61e+05	1.95e+05	34.9	n/a	1.38e+03	n/a
S95T002492		W	Oxalate by IC - Dionex 4000i	ug/g	109.4	<1.05e-01	1.97e+04	1.91e+04	1.94e+04	3.09	n/a	1.04e+03	n/a
S95T002492		W	Phosphate by IC - Dionex 4000i	ug/g	100.2	<2.96e-01	1.71e+04	5.69e+03	1.14e+04	100	n/a	2.93e+03	n/a
S95T002492		W	Sulfate by IC - Dionex 4000i	ug/g	99.05	<1.36e-01	3.07e+04	5.94e+04	4.50e+04	63.7	n/a	1.34e+03	n/a

15

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 2(DL)

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001427			TOC by Persulfate/Coulometry	ug/mL	n/a	n/a	2.71e+03	2.72e+03	2.72e+03	0.37	n/a	40.00	n/a
S95T001427			% Water by TGA on Perkin Elmer	%	101.1	n/a	27.11	25.03	26.07	7.98	n/a	n/a	n/a
S95T001427			DSC Exotherm on Perkin Elmer	Joules/g	98.45	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001427			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001427	D		Lithium-ICP-Acid Dil.	ug/mL	101.8	5.00e-04	< 4.0100	<4.0100	n/a	n/a	94.88	4.010	n/a
S95T001427			Sulfate by IC - Dionex 4000i	ug/mL	102.8	<6.78e-01	< 6.92e3	<6.92e3	n/a	n/a	n/a	6.92e+03	n/a
S95T001427			Phosphate by IC - Dionex 4000i	ug/mL	104.5	<5.96e-01	< 6.08e3	<6.08e3	n/a	n/a	n/a	6.08e+03	n/a
S95T001427			Oxalate by IC - Dionex 4000i	ug/mL	101.2	<4.96e-01	< 5.06e3	<5.06e3	n/a	n/a	n/a	5.06e+03	n/a
S95T001427			Nitrate by IC - Dionex 4000i	ug/mL	104.7	<6.99e-01	2.71e+05	2.73e+05	2.72e+05	0.74	n/a	7.13e+03	n/a
S95T001427			Nitrite by IC - Dionex 4000i	ug/mL	102.9	<5.47e-01	7.09e+04	7.24e+04	7.16e+04	2.09	n/a	5.58e+03	n/a
S95T001427			Fluoride by IC - Dionex 4000i	ug/mL	102.7	<6.20e-02	< 6.32e2	<6.32e2	n/a	n/a	n/a	632.0	n/a
S95T001427			Chloride by IC - Dionex 4000i	ug/mL	101.0	<8.30e-02	3.74e+03	3.79e+03	3.76e+03	1.33	n/a	847.0	n/a
S95T001427			Bromide by Ion Chromatograph	ug/mL	102.5	<6.32e-01	< 6.45e3	<6.45e3	n/a	n/a	n/a	6.45e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 3(A)

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001431			TOC by Persulfate/Coulometry	ug/g	91.33	28.40	3.98e+03	4.10e+03	4.04e+03	2.97	n/a	40.00	n/a
S95T001431			% Water by TGA using Mettler	%	101.3	n/a	41.31	38.53	39.92	1.59	n/a	n/a	n/a
S95T001431			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	323.2	323.0	323.1	0.06	n/a	n/a	n/a
S95T001431			DSC Exotherm using Mettler	Joules/g	106.5	n/a	180.6	180.5	180.6	0.06	n/a	n/a	n/a
S95T001431			Cyanide by Microdist. & Spec.	ug/g	105.7	1.48e-01	166.0	165.0	165.5	0.60	81.40	11.20	n/a
S95T001480	F		Alpha of Digested Solid	uCi/g	103.2	<2.74e-03	7.63e-03	3.93e-03	5.78e-03	64.0	n/a	6.85e-03	85.5
S95T001487	A		Lithium -ICP-Acid Digest	ug/g	102.9	3.00e-04	< 9.9900	<9.9200	n/a	n/a	n/a	9.990	n/a
S95T001487	A		Nickel -ICP-Acid Digest	ug/g	104.6	-1.08e-02	1.28e+03	1.35e+03	1.31e+03	5.84	n/a	20.00	n/a
S95T002293			Undecane (C11)	ug/g	n/a	0.00e+00	U 211.00	224.00U	n/a	n/a	n/a	211.0	n/a
S95T002293			Tridecane (C13)	ug/g	n/a	0.00e+00	J 6.810	8.520J	n/a	n/a	n/a	211.0	n/a
S95T002293			Tetradecane (C14)	ug/g	n/a	0.00e+00	J 7.180	8.800J	n/a	n/a	n/a	211.0	n/a
S95T002293			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 211.00	224.00U	n/a	n/a	90.31	211.0	n/a
S95T002293			Pentadecane (C15)	ug/g	n/a	0.00e+00	U 211.00	224.00U	n/a	n/a	n/a	211.0	n/a
S95T002293			Nonane (C9)	ug/g	n/a	0.00e+00	U 211.00	224.00U	n/a	n/a	90.62	211.0	n/a
S95T002293			Dodecane (C12)	ug/g	n/a	0.00e+00	J 7.140	9.470J	n/a	n/a	n/a	211.0	n/a
S95T002293			Decane (C10)	ug/g	n/a	0.00e+00	U 211.00	224.00U	n/a	n/a	n/a	211.0	n/a
S95T002493	W		Bromide by Ion Chromatograph	ug/g	98.66	<1.26e-01	< 1.08e3	<9.73e2	n/a	n/a	94.80	1.08e+03	n/a
S95T002493	W		Chloride by IC - Dionex 4000i	ug/g	98.48	<1.70e-02	1.50e+03	1.75e+03	1.62e+03	15.4	95.40	146.0	n/a
S95T002493	W		Fluoride by IC - Dionex 4000i	ug/g	99.32	<1.30e-02	9.73e+03	1.19e+04	1.08e+04	20.1	95.50	111.0	n/a
S95T002493	W		Nitrite by IC - Dionex 4000i	ug/g	93.80	<1.07e-01	2.52e+04	2.99e+04	2.76e+04	17.1	92.90	917.0	n/a
S95T002493	W		Nitrate by IC - Dionex 4000i	ug/g	98.86	3.69e-01	1.29e+05	1.52e+05	1.40e+05	16.4	97.70	1.20e+03	n/a
S95T002493	W		Oxalate by IC - Dionex 4000i	ug/g	106.3	<1.05e-01	9.93e+03	1.06e+04	1.03e+04	6.53	104.9	900.0	n/a
S95T002493	W		Phosphate by IC - Dionex 4000i	ug/g	95.17	<2.96e-01	6.23e+03	1.09e+04	8.56e+03	54.5	93.40	2.45e+03	n/a
S95T002493	W		Sulfate by IC - Dionex 4000i	ug/g	97.31	<1.36e-01	4.30e+04	5.07e+04	4.68e+04	16.4	94.80	1.17e+03	n/a

17

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 3(C)

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001432			TOC by Persulfate/Coulometry	ug/g	n/a	n/a	3.87e+03	3.72e+03	3.80e+03	3.95	n/a	40.00	n/a
S95T001432			% Water by TGA using Mettler	%	100.9	n/a	43.77	44.47	44.12	6.96	n/a	n/a	n/a
S95T001432			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	114.3	116.8	115.5	2.16	n/a	n/a	n/a
S95T001432			DSC Exotherm using Mettler	Joules/g	105.1	n/a	68.70	70.20	69.45	2.16	n/a	n/a	n/a
S95T001432			Cyanide by Microdist. & Spec.	ug/g	105.7	1.48e-01	92.80	111.0	101.9	17.9	99.00	11.60	n/a
S95T001481	F		Alpha of Digested Solid	uCi/g	103.2	<2.74e-03	< 4.66e-3	<5.93e-3	n/a	n/a	n/a	7.32e-03	500.0
S95T001488	A		Lithium -ICP-Acid Digest	ug/g	102.9	3.00e-04	< 9.4100	<9.2700	n/a	n/a	n/a	9.410	n/a
S95T001488	A		Nickel -ICP-Acid Digest	ug/g	104.6	-1.08e-02	1.09e+03	927.3	1.01e+03	16.6	n/a	18.80	n/a
S95T002294			Undecane (C11)	ug/g	n/a	0.00e+00	U 299.00	255.00U	n/a	n/a	n/a	299.0	n/a
S95T002294			Tridecane (C13)	ug/g	n/a	0.00e+00	J 2.870	2.960J	n/a	n/a	n/a	299.0	n/a
S95T002294			Tetradecane (C14)	ug/g	n/a	0.00e+00	U 299.00	255.00U	n/a	n/a	n/a	299.0	n/a
S95T002294			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 299.00	255.00U	n/a	n/a	124.6	299.0	n/a
S95T002294			Pentadecane (C15)	ug/g	n/a	0.00e+00	U 299.00	255.00U	n/a	n/a	n/a	299.0	n/a
S95T002294			Nonane (C9)	ug/g	n/a	0.00e+00	U 299.00	255.00U	n/a	n/a	121.7	299.0	n/a
S95T002294			Dodecane (C12)	ug/g	n/a	0.00e+00	U 299.00	255.00U	n/a	n/a	n/a	299.0	n/a
S95T002294			Decane (C10)	ug/g	n/a	0.00e+00	U 299.00	255.00U	n/a	n/a	n/a	299.0	n/a
S95T002494	W		Bromide by Ion Chromatograph	ug/g	98.66	<1.26e-01	< 4.61e2	<4.68e2	n/a	n/a	n/a	461.0	n/a
S95T002494	W		Chloride by IC - Dionex 4000i	ug/g	98.48	<1.70e-02	1.32e+03	1.87e+03	1.60e+03	34.5	n/a	62.20	n/a
S95T002494	W		Fluoride by IC - Dionex 4000i	ug/g	99.32	<1.30e-02	1.31e+04	1.28e+04	1.30e+04	2.32	n/a	47.50	n/a
S95T002494	W		Nitrite by IC - Dionex 4000i	ug/g	93.80	<1.07e-01	2.37e+04	3.47e+04	2.92e+04	37.7	n/a	391.0	n/a
S95T002494	W		Nitrate by IC - Dionex 4000i	ug/g	98.86	3.69e-01	1.02e+05	1.48e+05	1.25e+05	36.8	n/a	512.0	n/a
S95T002494	W		Oxalate by IC - Dionex 4000i	ug/g	106.3	<1.05e-01	6.90e+03	7.70e+03	7.30e+03	11.0	n/a	384.0	n/a
S95T002494	W		Phosphate by IC - Dionex 4000i	ug/g	95.17	<2.96e-01	2.05e+04	9.74e+03	1.51e+04	71.2	n/a	1.08e+03	n/a
S95T002494	W		Sulfate by IC - Dionex 4000i	ug/g	97.31	<1.36e-01	5.67e+04	6.27e+04	5.97e+04	10.1	n/a	497.0	n/a

18

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 3(D)

SEGMENT PORTION: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001433			TOC by Persulfate/Coulometry	ug/g	n/a	n/a	3.04e+03	3.24e+03	3.14e+03	6.37	n/a	40.00	n/a
S95T001433			% Water by TGA using Mettler	%	101.8	n/a	34.52	38.56	36.54	11.1	n/a	n/a	n/a
S95T001433			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	235.7	226.1	230.9	4.16	n/a	n/a	n/a
S95T001433			DSC Exotherm using Mettler	Joules/g	106.9	n/a	149.6	143.5	146.6	4.16	n/a	n/a	n/a
S95T001433			Cyanide by Microdist. & Spec.	ug/g	99.23	1.18e-01	286.0	265.0	275.5	7.62	93.70	144.0	n/a
S95T001482	F		Alpha of Digested Solid	uCi/g	100.0	<2.24e-02	< 2.06e-2	<1.73e-2	n/a	n/a	96.90	2.50e-02	245.9
S95T001489	A		Lithium -ICP-Acid Digest	ug/g	102.9	3.00e-04	< 9.7200	<9.6500	n/a	n/a	92.91	9.720	n/a
S95T001489	A		Nickel -ICP-Acid Digest	ug/g	104.6	-1.08e-02	744.9	832.1	788.5	11.1	113.0	19.40	n/a
S95T002495	W		Bromide by Ion Chromatograph	ug/g	99.67	<1.26e-01	< 7.23e2	<6.95e2	n/a	n/a	95.70	723.0	n/a
S95T002495	W		Chloride by IC - Dionex 4000i	ug/g	101.6	<1.70e-02	1.76e+03	1.42e+03	1.59e+03	21.4	94.20	97.50	n/a
S95T002495	W		Fluoride by IC - Dionex 4000i	ug/g	104.2	<1.30e-02	2.96e+04	3.24e+04	3.10e+04	9.03	89.00	148.0	n/a
S95T002495	W		Nitrite by IC - Dionex 4000i	ug/g	96.70	<1.07e-01	3.13e+04	2.52e+04	2.82e+04	21.6	94.80	614.0	n/a
S95T002495	W		Nitrate by IC - Dionex 4000i	ug/g	101.1	3.95e-01	1.39e+05	1.01e+05	1.20e+05	31.7	100.4	803.0	n/a
S95T002495	W		Oxalate by IC - Dionex 4000i	ug/g	111.2	<1.05e-01	3.02e+03	3.04e+03	3.03e+03	0.66	106.1	602.0	n/a
S95T002495	W		Phosphate by IC - Dionex 4000i	ug/g	93.57	<2.96e-01	3.44e+03	4.61e+04	2.48e+04	172	91.40	1.70e+03	n/a
S95T002495	W		Sulfate by IC - Dionex 4000i	ug/g	98.75	<1.36e-01	1.30e+05	1.17e+05	1.24e+05	10.5	98.70	602.0	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 98
SEGMENT #: 3(DL)

TABLE 2

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001430			TOC by Persulfate/Coulometry	ug/g	93.00	24.10	2.55e+03	2.51e+03	2.53e+03	1.58	n/a	40.00	n/a
S95T001430			% Water by TGA using Mettler	%	101.4	n/a	38.58	39.47	39.02	2.28	n/a	n/a	n/a
S95T001430			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	121.7	114.2	118.0	6.36	n/a	n/a	n/a
S95T001430			DSC Exotherm using Mettler	Joules/g	95.96	n/a	74.20	69.60	71.90	6.40	n/a	n/a	n/a
S95T001430	D		Lithium-ICP-Acid Dil.	ug/mL	101.8	5.00e-04	< 4.0100	<4.0100	n/a	n/a	92.72	4.010	n/a
S95T001430			Sulfate by IC - Dionex 4000i	ug/mL	102.8	<6.78e-01	< 6.92e3	<6.92e3	n/a	n/a	n/a	6.92e+03	n/a
S95T001430			Phosphate by IC - Dionex 4000i	ug/mL	104.5	<5.96e-01	< 6.08e3	<6.08e3	n/a	n/a	n/a	6.08e+03	n/a
S95T001430			Oxalate by IC - Dionex 4000i	ug/mL	101.2	<4.96e-01	< 5.06e3	<5.06e3	n/a	n/a	n/a	5.06e+03	n/a
S95T001430			Nitrate by IC - Dionex 4000i	ug/mL	104.7	<6.99e-01	2.54e+05	2.51e+05	2.52e+05	1.19	n/a	7.13e+03	n/a
S95T001430			Nitrite by IC - Dionex 4000i	ug/mL	102.9	<5.47e-01	7.38e+04	7.20e+04	7.29e+04	2.47	n/a	5.58e+03	n/a
S95T001430			Fluoride by IC - Dionex 4000i	ug/mL	102.7	<6.20e-02	< 6.32e2	<6.32e2	n/a	n/a	n/a	632.0	n/a
S95T001430			Chloride by IC - Dionex 4000i	ug/mL	101.0	<8.30e-02	4.01e+03	4.03e+03	4.02e+03	0.50	n/a	847.0	n/a
S95T001430			Bromide by Ion Chromatograph	ug/mL	102.5	<6.32e-01	< 6.45e3	<6.45e3	n/a	n/a	n/a	6.45e+03	n/a

20

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 4(A)

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001419			TOC by Persulfate/Coulometry	ug/g	99.67	21.50	1.04e+04	1.26e+04	1.15e+04	19.1	n/a	40.00	n/a
S95T001419			% Water by TGA using Mettler	%	97.31	n/a	28.88	36.23	32.55	22.6	n/a	n/a	n/a
S95T001419	1		% Water by TGA using Mettler	%	101.2	n/a	36.64	36.69	36.66	0.14	n/a	n/a	n/a
S95T001419			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	295.1	390.8	343.0	27.9	n/a	n/a	n/a
S95T001419	1		DSC Exotherm using Mettler	Joules/g	101.6	n/a	199.0	263.6	231.3	27.9	n/a	n/a	n/a
S95T001419			DSC Exotherm using Mettler	Joules/g	97.01	n/a	292.9	162.2	227.5	57.4	n/a	n/a	n/a
S95T001419			Cyanide by Microdist. & Spec.	ug/g	109.5	1.35e-01	1.74e+03	1.90e+03	1.82e+03	8.79	116.2	335.0	n/a
S95T001423		F	Alpha of Digested Solid	uCi/g	107.9	<5.29e-03	< 1.45e-2	<7.36e-3	n/a	n/a	91.20	1.30e-02	500.0
S95T001490		A	Lithium -ICP-Acid Digest	ug/g	97.77	-7.00e-04	< 9.5400	<9.5600	n/a	n/a	n/a	9.540	n/a
S95T001490		A	Nickel -ICP-Acid Digest	ug/g	101.4	-9.10e-03	1.49e+04	1.48e+04	1.48e+04	0.58	n/a	19.10	n/a
S95T002295			Undecane (C11)	ug/g	n/a	0.00e+00	J 94.200	88.000J	n/a	n/a	n/a	233.0	n/a
S95T002295			Tridecane (C13)	ug/g	n/a	0.00e+00	233.0	226.0	229.5	3.05	n/a	233.0	n/a
S95T002295			Tetradecane (C14)	ug/g	n/a	0.00e+00	J 183.000	1.5e+02J	n/a	n/a	n/a	233.0	n/a
S95T002295			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 233.00	157.00U	n/a	n/a	112.3	233.0	n/a
S95T002295			Pentadecane (C15)	ug/g	n/a	0.00e+00	J 69.300	61.300J	n/a	n/a	n/a	233.0	n/a
S95T002295			Nonane (C9)	ug/g	n/a	0.00e+00	U 233.00	157.00U	n/a	n/a	109.9	233.0	n/a
S95T002295			Dodecane (C12)	ug/g	n/a	0.00e+00	J 214.000	2.01e02J	n/a	n/a	n/a	233.0	n/a
S95T002295			Decane (C10)	ug/g	n/a	0.00e+00	U 233.00	157.00U	n/a	n/a	n/a	233.0	n/a
S95T002496		W	Bromide by Ion Chromatograph	ug/g	99.67	<1.26e-01	< 8.50e2	<8.18e2	n/a	n/a	n/a	850.0	n/a
S95T002496		W	Chloride by IC - Dionex 4000i	ug/g	101.6	<1.70e-02	1.34e+03	1.26e+03	1.30e+03	6.15	n/a	115.0	n/a
S95T002496		W	Fluoride by IC - Dionex 4000i	ug/g	104.2	<1.30e-02	6.86e+03	1.08e+04	8.83e+03	44.6	n/a	87.70	n/a
S95T002496		W	Nitrite by IC - Dionex 4000i	ug/g	96.70	<1.07e-01	3.72e+04	3.08e+04	3.40e+04	18.8	n/a	722.0	n/a
S95T002496		W	Nitrate by IC - Dionex 4000i	ug/g	101.1	3.95e-01	6.94e+04	5.83e+04	6.38e+04	17.4	n/a	945.0	n/a
S95T002496		W	Oxalate by IC - Dionex 4000i	ug/g	111.2	<1.05e-01	< 7.09e2	1.94e+03	n/a	n/a	n/a	709.0	n/a
S95T002496		W	Phosphate by IC - Dionex 4000i	ug/g	93.57	<2.96e-01	2.28e+04	6.43e+04	4.36e+04	95.3	n/a	2.00e+03	n/a
S95T002496		W	Sulfate by IC - Dionex 4000i	ug/g	98.75	<1.36e-01	4.10e+04	2.97e+04	3.54e+04	32.0	n/a	918.0	n/a

21

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 98
SEGMENT #: 4(B)

TABLE 2

SEGMENT PORTION: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001420			TOC by Persulfate/Coulometry	ug/g	99.67	21.50	2.09e+04	2.07e+04	2.08e+04	0.96	n/a	40.00	n/a
S95T001420			% Water by TGA using Mettler	%	97.31	n/a	35.41	35.81	35.61	1.12	n/a	n/a	n/a
S95T001420	1		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	481.3	409.5	445.4	16.1	n/a	n/a	n/a
S95T001420			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	509.1	438.1	473.6	15.0	n/a	n/a	n/a
S95T001420	1		DSC Exotherm using Mettler	Joules/g	101.6	n/a	309.9	263.7	286.8	16.1	n/a	n/a	n/a
S95T001420			DSC Exotherm using Mettler	Joules/g	97.01	n/a	327.8	282.1	305.0	15.0	n/a	n/a	n/a
S95T001420			Cyanide by Microdist. & Spec.	ug/g	109.5	1.35e-01	2.01e+03	1.72e+03	1.86e+03	16.5	108.8	182.0	n/a
S95T001424		F	Alpha of Digested Solid	uCi/g	107.9	<5.29e-03	< 7.47e-3	6.10e-02	n/a	n/a	92.20	1.06e-02	234.9
S95T001491		A	Lithium -ICP-Acid Digest	ug/g	97.77	-7.00e-04	< 9.6700	<9.6800	n/a	n/a	n/a	9.670	n/a
S95T001491		A	Nickel -ICP-Acid Digest	ug/g	101.4	-9.10e-03	9.92e+03	9.79e+03	9.85e+03	1.32	n/a	19.30	n/a
S95T002296			Undecane (C11)	ug/g	n/a	0.00e+00	J 164.000	1.24e02J	n/a	n/a	n/a	206.0	n/a
S95T002296			Tridecane (C13)	ug/g	n/a	0.00e+00	478.0	337.0	407.5	34.6	n/a	206.0	n/a
S95T002296			Tetradecane (C14)	ug/g	n/a	0.00e+00	372.0	214.0	293.0	53.9	n/a	206.0	n/a
S95T002296			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 206.00	198.00U	n/a	n/a	73.86	206.0	n/a
S95T002296			Pentadecane (C15)	ug/g	n/a	0.00e+00	J 108.000	80.700J	n/a	n/a	n/a	206.0	n/a
S95T002296			Nonane (C9)	ug/g	n/a	0.00e+00	U 206.00	198.00U	n/a	n/a	79.07	206.0	n/a
S95T002296			Dodecane (C12)	ug/g	n/a	0.00e+00	397.0	293.0	345.0	30.1	n/a	206.0	n/a
S95T002296			Decane (C10)	ug/g	n/a	0.00e+00	U 206.00	198.00U	n/a	n/a	n/a	206.0	n/a
S95T002497		W	Bromide by Ion Chromatograph	ug/g	96.85	<1.26e-01	< 5.83e2	<5.53e2	n/a	n/a	96.70	583.0	n/a
S95T002497		W	Chloride by IC - Dionex 4000i	ug/g	100.6	<1.70e-02	910.0	1.30e+03	1.10e+03	35.3	98.60	78.70	n/a
S95T002497		W	Fluoride by IC - Dionex 4000i	ug/g	101.5	<1.30e-02	375.0	3.67e+03	2.02e+03	163	110.0	60.20	n/a
S95T002497		W	Nitrite by IC - Dionex 4000i	ug/g	97.54	<1.07e-01	2.61e+04	3.64e+04	3.12e+04	33.0	99.60	787.0	n/a
S95T002497		W	Nitrate by IC - Dionex 4000i	ug/g	97.95	3.82e-01	3.77e+04	5.28e+04	4.52e+04	33.4	97.40	648.0	n/a
S95T002497		W	Oxalate by IC - Dionex 4000i	ug/g	107.0	<1.05e-01	2.79e+04	3.61e+03	1.58e+04	154	105.2	486.0	n/a
S95T002497		W	Phosphate by IC - Dionex 4000i	ug/g	91.69	<2.96e-01	8.12e+03	3.96e+04	2.39e+04	132	90.90	1.37e+03	n/a
S95T002497		W	Sulfate by IC - Dionex 4000i	ug/g	96.61	<1.36e-01	1.50e+05	1.24e+04	8.12e+04	169	85.50	630.0	n/a

22

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 98
SEGMENT #: 4(C)

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001421			TOC by Persulfate/Coulometry	ug/g	96.33	21.20	5.67e+03	5.87e+03	5.77e+03	3.47	122.4	40.00	n/a
S95T001421			% Water by TGA using Mettler	%	101.5	n/a	38.31	39.82	39.06	3.87	n/a	n/a	n/a
S95T001421			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	221.9	226.4	224.2	2.01	n/a	n/a	n/a
S95T001421			DSC Exotherm using Mettler	Joules/g	102.3	n/a	135.4	138.2	136.8	2.05	n/a	n/a	n/a
S95T001421			Cyanide by Microdist. & Spec.	ug/g	107.4	<3.60e-02	1.85e+03	1.88e+03	1.86e+03	n/a	105.4	260.0	n/a
S95T001425	F		Alpha of Digested Solid	uCi/g	99.28	<4.22e-02	2.41e-01	3.13e-01	2.77e-01	26.0	111.2	9.66e-02	37.6
S95T001492	A		Lithium -ICP-Acid Digest	ug/g	97.77	-7.00e-04	< 9.4700	<9.4600	n/a	n/a	n/a	9.470	n/a
S95T001492	A		Nickel -ICP-Acid Digest	ug/g	101.4	-9.10e-03	5.65e+03	5.67e+03	5.66e+03	0.43	n/a	18.90	n/a
S95T002297			Undecane (C11)	ug/g	n/a	0.00e+00	J 102.000	1.11e02J	n/a	n/a	n/a	376.0	n/a
S95T002297			Tridecane (C13)	ug/g	n/a	0.00e+00	J 275.000	3.34e02J	n/a	n/a	n/a	376.0	n/a
S95T002297			Tetradecane (C14)	ug/g	n/a	0.00e+00	J 187.000	2.28e02J	n/a	n/a	n/a	376.0	n/a
S95T002297			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 376.00	269.00U	n/a	n/a	94.75	376.0	n/a
S95T002297			Pentadecane (C15)	ug/g	n/a	0.00e+00	J 57.300	1.05e02J	n/a	n/a	n/a	376.0	n/a
S95T002297			Nonane (C9)	ug/g	n/a	0.00e+00	J 12.200	11.600J	n/a	n/a	89.98	376.0	n/a
S95T002297			Dodecane (C12)	ug/g	n/a	0.00e+00	J 255.000	2.7e+02J	n/a	n/a	n/a	376.0	n/a
S95T002297			Decane (C10)	ug/g	n/a	0.00e+00	J 28.100	29.300J	n/a	n/a	n/a	376.0	n/a
S95T002498	W		Bromide by Ion Chromatograph	ug/g	96.85	<1.26e-01	< 1.32e3	<1.28e3	n/a	n/a	n/a	1.32e+03	n/a
S95T002498	W		Chloride by IC - Dionex 4000i	ug/g	100.6	<1.70e-02	2.03e+03	1.69e+03	1.86e+03	18.3	n/a	178.0	n/a
S95T002498	W		Fluoride by IC - Dionex 4000i	ug/g	101.5	<1.30e-02	< 1.36e2	<1.32e2	n/a	n/a	n/a	136.0	n/a
S95T002498	W		Nitrite by IC - Dionex 4000i	ug/g	97.54	<1.07e-01	4.84e+04	4.86e+04	4.85e+04	0.41	n/a	1.78e+03	n/a
S95T002498	W		Nitrate by IC - Dionex 4000i	ug/g	97.95	3.82e-01	6.31e+04	6.25e+04	6.28e+04	0.96	n/a	1.47e+03	n/a
S95T002498	W		Oxalate by IC - Dionex 4000i	ug/g	107.0	<1.05e-01	2.51e+03	2.52e+03	2.52e+03	0.40	n/a	1.10e+03	n/a
S95T002498	W		Phosphate by IC - Dionex 4000i	ug/g	91.69	<2.96e-01	3.66e+04	4.08e+04	3.87e+04	10.9	n/a	3.10e+03	n/a
S95T002498	W		Sulfate by IC - Dionex 4000i	ug/g	96.61	<1.36e-01	6.38e+03	7.06e+03	6.72e+03	10.1	n/a	1.43e+03	n/a

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 98
SEGMENT #: 4(D)

TABLE 2

SEGMENT PORTION: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001422			TOC by Persulfate/Coulometry	ug/g	96.33	21.20	3.50e+03	3.37e+03	3.44e+03	3.78	n/a	40.00	n/a
S95T001422			% Water by TGA using Mettler	%	101.5	n/a	36.49	36.40	36.45	0.25	n/a	n/a	n/a
S95T001422			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	98.51	107.6	103.1	8.82	n/a	n/a	n/a
S95T001422			DSC Exotherm using Mettler	Joules/g	102.3	n/a	62.60	68.40	65.50	8.85	n/a	n/a	n/a
S95T001422			Cyanide by Microdist. & Spec.	ug/g	99.23	1.18e-01	2.89e+03	3.08e+03	2.98e+03	6.37	99.90	395.0	n/a
S95T001426	F		Alpha of Digested Solid	uCi/g	91.22	<9.64e-02	3.52e-01	3.68e-01	3.60e-01	4.44	97.80	2.44e-01	56.8
S95T001493	A		Lithium -ICP-Acid Digest	ug/g	97.77	-7.00e-04	< 10.7600	<10.7800	n/a	n/a	97.73	10.80	n/a
S95T001493	A		Nickel -ICP-Acid Digest	ug/g	101.4	-9.10e-03	3.60e+03	3.61e+03	3.60e+03	0.36	n/a	21.50	n/a
S95T002298			Undecane (C11)	ug/g	n/a	0.00e+00	U 257.00	212.00U	n/a	n/a	n/a	257.0	n/a
S95T002298			Tridecane (C13)	ug/g	n/a	0.00e+00	J 6.070	7.480J	n/a	n/a	n/a	257.0	n/a
S95T002298			Tetradecane (C14)	ug/g	n/a	0.00e+00	J 4.540	5.390J	n/a	n/a	n/a	257.0	n/a
S95T002298			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 257.00	212.00U	n/a	n/a	90.17	257.0	n/a
S95T002298			Pentadecane (C15)	ug/g	n/a	0.00e+00	U 257.00	212.00U	n/a	n/a	n/a	257.0	n/a
S95T002298			Nonane (C9)	ug/g	n/a	0.00e+00	U 257.00	212.00U	n/a	n/a	91.20	257.0	n/a
S95T002298			Dodecane (C12)	ug/g	n/a	0.00e+00	J 7.080	7.920J	n/a	n/a	n/a	257.0	n/a
S95T002298			Decane (C10)	ug/g	n/a	0.00e+00	U 257.00	212.00U	n/a	n/a	n/a	257.0	n/a
S95T003707	W		Bromide by Ion Chromatograph	ug/g	105.6	<1.26e-01	<5.212e+0	<5.51e2	n/a	n/a	102.6	521.0	n/a
S95T003707	W		Chloride by IC - Dionex 4000i	ug/g	106.6	<1.70e-02	1.20e+03	1.27e+03	1.24e+03	5.67	105.1	70.30	n/a
S95T003707	W		Fluoride by IC - Dionex 4000i	ug/g	105.6	<1.30e-02	456.4	452.0	454.2	0.88	104.2	53.76	n/a
S95T003707	W		Nitrite by IC - Dionex 4000i	ug/g	104.9	<1.07e-01	4.29e+04	4.43e+04	4.36e+04	3.21	104.8	442.5	n/a
S95T003707	W		Nitrate by IC - Dionex 4000i	ug/g	102.6	<1.40e-01	5.05e+04	5.10e+04	5.07e+04	0.99	105.4	578.1	n/a
S95T003707	W		Oxalate by IC - Dionex 4000i	ug/g	101.9	<1.05e-01	983.1	562.0	772.5	54.5	102.3	434.2	n/a
S95T003707	W		Phosphate by IC - Dionex 4000i	ug/g	113.2	<1.19e-01	5.85e+04	5.38e+04	5.62e+04	8.37	101.5	492.1	n/a
S95T003707	W		Sulfate by IC - Dionex 4000i	ug/g	101.7	<1.36e-01	4.48e+03	1.20e+04	8.24e+03	91.3	99.66	562.4	n/a

24

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 99
SEGMENT #: HHF BLANK

SEGMENT PORTION: Hydrostatic Head Fluid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001659		D	Lithium-ICP-Acid Dil.	ug/mL	100.5	-2.00e-04	1.68e+03	1.67e+03	1.68e+03	0.75	n/a	2.10e-01	n/a
S95T001659			Sulfate by IC - Dionex 4000i	ug/mL	100.5	<6.78e-01	< 7.53e2	<7.53e2	n/a	n/a	n/a	753.0	n/a
S95T001659			Phosphate by IC - Dionex 4000i	ug/mL	103.4	<5.96e-01	< 6.62e2	<6.62e2	n/a	n/a	n/a	662.0	n/a
S95T001659			Oxalate by IC - Dionex 4000i	ug/mL	102.8	<4.96e-01	< 5.51e2	<5.51e2	n/a	n/a	n/a	551.0	n/a
S95T001659			Nitrate by IC - Dionex 4000i	ug/mL	100.3	<6.99e-01	< 7.77e2	<7.76e2	n/a	n/a	n/a	777.0	n/a
S95T001659			Nitrite by IC - Dionex 4000i	ug/mL	102.1	<5.47e-01	< 6.08e2	<6.07e2	n/a	n/a	n/a	608.0	n/a
S95T001659			Fluoride by IC - Dionex 4000i	ug/mL	103.9	<6.20e-02	< 6.89e1	<6.88e1	n/a	n/a	n/a	68.90	n/a
S95T001659			Chloride by IC - Dionex 4000i	ug/mL	99.11	<8.30e-02	< 9.22e1	<9.22e1	n/a	n/a	n/a	92.20	n/a
S95T001659			Bromide by Ion Chromatograph	ug/mL	102.4	<6.32e-01	2.17e+04	2.17e+04	2.17e+04	0.00	n/a	702.0	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 104
SEGMENT #: 1(W)

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001925			TOC by Persulfate/Coulometry	ug/g	95.00	3.300	3.00e+03	2.50e+03	2.75e+03	18.2	75.70	40.00	n/a
S95T001925			% Water by TGA on Perkin Elmer	%	101.7	n/a	24.90	23.78	24.34	4.60	n/a	n/a	n/a
S95T001925			DSC Exotherm on Perkin Elmer	Joules/g	97.79	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001925			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001925			Cyanide by Microdist. & Spec.	ug/g	111.7	1.29e-01	60.20	57.40	58.80	4.76	75.40	47.30	n/a
S95T002001		F	Alpha of Digested Solid	uCi/g	110.3	<4.59e-04	<6.35E-04	<1.51E-3	n/a	n/a	4.78e-03	7.44e-04	1.96E+02
S95T002161		A	Silver -ICP-Acid Digest	ug/g	88.05	8.00e-04	< 9.9800	<9.8200	n/a	n/a	96.60	9.980	n/a
S95T002161		A	Aluminium -ICP-Acid Digest	ug/g	99.77	2.34e-02	2.31e+04	1.46e+04	1.89e+04	45.3	n/a	49.90	n/a
S95T002161		A	Arsenic -ICP-Acid Digest	ug/g	90.36	-2.60e-03	< 49.9000	<49.1000	n/a	n/a	100.0	49.90	n/a
S95T002161		A	Boron -ICP-Acid Digest	ug/g	120.4	2.34e-02	< 49.9000	56.71	n/a	n/a	133.5	49.90	n/a
S95T002161		A	Barium -ICP-Acid Digest	ug/g	92.12	2.00e-04	< 49.9000	<49.1000	n/a	n/a	94.15	49.90	n/a
S95T002161		A	Beryllium -ICP-Acid Digest	ug/g	97.11	-1.00e-04	< 4.9900	<4.9100	n/a	n/a	99.32	4.990	n/a
S95T002161		A	Bismuth -ICP-Acid Digest	ug/g	88.36	-1.76e-02	< 99.8000	<98.2000	n/a	n/a	97.88	99.80	n/a
S95T002161		A	Calcium -ICP-Acid Digest	ug/g	116.5	1.22e-01	292.4	249.5	271.0	15.8	110.2	99.80	n/a
S95T002161		A	Cadmium -ICP-Acid Digest	ug/g	87.33	1.00e-03	< 9.9800	<9.8200	n/a	n/a	96.80	9.980	n/a
S95T002161		A	Cerium -ICP-Acid Digest	ug/g	95.64	7.80e-03	< 99.8000	<98.2000	n/a	n/a	97.75	99.80	n/a
S95T002161		A	Cobalt -ICP-Acid Digest	ug/g	90.14	1.90e-03	< 19.9600	<19.6400	n/a	n/a	99.16	20.00	n/a
S95T002161		A	Chromium -ICP-Acid Digest	ug/g	90.67	1.90e-03	93.10	92.76	92.93	0.36	97.74	9.980	n/a
S95T002161		A	Copper -ICP-Acid Digest	ug/g	91.01	2.00e-03	< 9.9800	<9.8200	n/a	n/a	96.61	9.980	n/a
S95T002161		A	Iron -ICP-Acid Digest	ug/g	90.38	2.55e-02	1.00e+03	1.21e+03	1.11e+03	18.5	112.7	49.90	n/a
S95T002161		A	Potassium -ICP-Acid Digest	ug/g	93.24	1.96e-01	389.0	<294.600	n/a	n/a	95.06	299.0	n/a
S95T002161		A	Lanthanum -ICP-Acid Digest	ug/g	94.66	-4.00e-04	< 49.9000	<49.1000	n/a	n/a	97.61	49.90	n/a
S95T002161		A	Lithium -ICP-Acid Digest	ug/g	94.68	-2.50e-03	26.51	25.23	25.87	4.97	96.55	9.980	n/a
S95T002161		A	Magnesium -ICP-Acid Digest	ug/g	92.60	1.76e-02	< 99.8000	<98.2000	n/a	n/a	116.7	99.80	n/a
S95T002161		A	Manganese -ICP-Acid Digest	ug/g	88.14	-2.00e-04	13.90	14.62	14.26	5.02	93.02	9.980	n/a
S95T002161		A	Molybdenum -ICP-Acid Digest	ug/g	92.86	-1.40e-03	< 49.9000	<49.1000	n/a	n/a	97.73	49.90	n/a
S95T002161		A	Sodium -ICP-Acid Digest	ug/g	164.6	8.15e-02	2.19e+05	2.23e+05	2.21e+05	1.89	n/a	99.80	n/a
S95T002161		A	Neodymium -ICP-Acid Digest	ug/g	92.82	1.10e-03	< 99.8000	<98.2000	n/a	n/a	95.42	99.80	n/a
S95T002161		A	Nickel -ICP-Acid Digest	ug/g	89.33	3.00e-04	130.4	118.0	124.2	9.97	94.42	20.00	n/a
S95T002161		A	Phosphorus -ICP-Acid Digest	ug/g	94.26	3.35e-02	3.30e+04	3.25e+04	3.28e+04	1.75	n/a	200.0	n/a
S95T002161		A	Lead -ICP-Acid Digest	ug/g	86.56	7.20e-03	< 99.8000	<98.2000	n/a	n/a	114.2	99.80	n/a
S95T002161		A	Sulfur -ICP-Acid Digest	ug/g	86.56	3.98e-02	1.19e+03	949.3	1.07e+03	22.5	96.57	49.90	n/a
S95T002161		A	Antimony -ICP-Acid Digest	ug/g	85.05	1.40e-03	<199.6000	<196.400	n/a	n/a	94.05	200.0	n/a
S95T002161		A	Selenium -ICP-Acid Digest	ug/g	87.21	-1.19e-02	< 99.8000	<98.2000	n/a	n/a	93.90	99.80	n/a
S95T002161		A	Silicon -ICP-Acid Digest	ug/g	25.38	6.72e-02	200.4	378.8	289.6	61.6	n/a	49.90	n/a
S95T002161		A	Samarium -ICP-Acid Digest	ug/g	92.66	-2.52e-02	< 99.8000	<98.2000	n/a	n/a	94.39	99.80	n/a
S95T002161		A	Strontium -ICP-Acid Digest	ug/g	92.56	-3.00e-04	32.90	36.42	34.66	10.2	95.39	9.980	n/a
S95T002161		A	Titanium-ICP-Acid Digest	ug/g	91.84	7.00e-04	10.82	11.39	11.11	5.12	91.16	9.980	n/a
S95T002161		A	Thallium -ICP-Acid Digest	ug/g	86.15	5.20e-03	<199.6000	<196.400	n/a	n/a	95.89	200.0	n/a
S95T002161		A	Uranium -ICP-Acid Digest	ug/g	90.75	-1.03e-01	<399.2000	<392.800	n/a	n/a	106.4	399.0	n/a
S95T002161		A	Vanadium -ICP-Acid Digest	ug/g	89.53	-5.30e-03	69.40	67.92	68.66	2.17	96.12	49.90	n/a
S95T002161		A	Zinc -ICP-Acid Digest	ug/g	85.56	1.56e-02	37.93	44.46	41.19	15.9	98.14	9.980	n/a
S95T002161		A	Zirconium -ICP-Acid Digest	ug/g	92.57	-3.70e-03	< 9.9800	<9.8200	n/a	n/a	85.78	9.980	n/a

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002338			Undecane (C11)	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	n/a	118.0	n/a
S95T002338			Tridecane (C13)	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	n/a	118.0	n/a
S95T002338			Tetradecane (C14)	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	n/a	118.0	n/a
S95T002338			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	106.2	118.0	n/a
S95T002338			Pentadecane (C15)	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	n/a	118.0	n/a
S95T002338			Nonane (C9)	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	104.8	118.0	n/a
S95T002338			Dodecane (C12)	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	n/a	118.0	n/a
S95T002338			Decane (C10)	ug/g	n/a	0.00e+00	U	118.00	122.00U	n/a	n/a	n/a	118.0	n/a
S95T002536		W	Bromide by Ion Chromatograph	ug/g	96.35	<1.26e-01	<	1.55e3	<1.55e3	n/a	n/a	65.40	1.55e+03	n/a
S95T002536		W	Chloride by IC - Dionex 4000i	ug/g	96.20	<1.70e-02	<	2.10e2	<2.10e2	n/a	n/a	73.20	210.0	n/a
S95T002536		W	Fluoride by IC - Dionex 4000i	ug/g	96.61	<1.30e-02		5.75e+03	1.10e+04	8.38e+03	62.7	69.80	160.0	n/a
S95T002536		W	Nitrite by IC - Dionex 4000i	ug/g	95.90	<1.07e-01	<	1.32e3	3.74e+03	n/a	n/a	70.90	1.32e+03	n/a
S95T002536		W	Nitrate by IC - Dionex 4000i	ug/g	93.65	<1.40e-01		5.65e+05	3.78e+05	4.72e+05	39.7	61.00	1.73e+03	n/a
S95T002536		W	Oxalate by IC - Dionex 4000i	ug/g	100.9	<1.50e-01		5.84e+03	8.18e+03	7.01e+03	33.4	73.70	1.29e+03	n/a
S95T002536		W	Phosphate by IC - Dionex 4000i	ug/g	91.39	<2.96e-01		5.08e+04	9.88e+04	7.48e+04	64.2	70.20	3.65e+03	n/a
S95T002536		W	Sulfate by IC - Dionex 4000i	ug/g	93.98	<1.36e-01	*	1.68e3	5.84e+03	n/a	n/a	65.40	1.68e+03	n/a

INTERIM

27

WHC-SD-WM-DP-145, REV. 1

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 2(A)

TABLE 2

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001966			TOC by Persulfate/Coulometry	ug/g	95.00	3.300	2.45e+03	2.38e+03	2.42e+03	2.90	n/a	40.00	n/a
S95T001966			% Water by TGA using Mettler	%	101.3	n/a	20.84	19.25	20.05	7.93	n/a	n/a	n/a
S95T001966			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001966			DSC Exotherm using Mettler	Joules/g	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001966			Cyanide by Microdist. & Spec.	ug/g	107.9	1.03e-01	69.80	62.90	66.35	10.4	104.7	24.20	n/a
S95T002002		F	Alpha of Digested Solid	uCi/g	110.3	<4.59e-04	3.66e-03	3.18e-03	3.42e-03	14.0	7.48e-02	6.88e-04	2.78E+01
S95T002162		A	Silver -ICP-Acid Digest	ug/g	86.40	4.00e-04	< 13.5200	<13.5500	n/a	n/a	95.42	13.50	n/a
S95T002162		A	Aluminium -ICP-Acid Digest	ug/g	102.4	3.79e-02	3.46e+04	5.58e+04	4.52e+04	47.0	n/a	67.60	n/a
S95T002162		A	Arsenic -ICP-Acid Digest	ug/g	89.81	-4.50e-03	< 67.6000	<67.7500	n/a	n/a	93.73	67.60	n/a
S95T002162		A	Boron -ICP-Acid Digest	ug/g	119.5	2.48e-02	< 67.6000	<67.7500	n/a	n/a	100.0	67.60	n/a
S95T002162		A	Barium -ICP-Acid Digest	ug/g	94.04	5.00e-04	257.1	409.7	333.4	45.8	108.3	67.60	n/a
S95T002162		A	Beryllium -ICP-Acid Digest	ug/g	99.19	1.00e-04	< 6.7600	<6.7750	n/a	n/a	96.51	6.760	n/a
S95T002162		A	Bismuth -ICP-Acid Digest	ug/g	86.69	1.79e-02	<135.2000	<135.500	n/a	n/a	102.1	135.0	n/a
S95T002162		A	Calcium -ICP-Acid Digest	ug/g	104.5	1.35e-01	2.64e+03	4.42e+03	3.53e+03	50.6	n/a	135.0	n/a
S95T002162		A	Cadmium -ICP-Acid Digest	ug/g	86.01	6.00e-04	< 13.5200	<13.5500	n/a	n/a	94.60	13.50	n/a
S95T002162		A	Cerium -ICP-Acid Digest	ug/g	97.18	2.80e-03	<135.2000	<135.500	n/a	n/a	97.10	135.0	n/a
S95T002162		A	Cobalt -ICP-Acid Digest	ug/g	89.09	4.00e-04	< 27.0400	<27.1000	n/a	n/a	94.97	27.00	n/a
S95T002162		A	Chromium -ICP-Acid Digest	ug/g	90.27	3.30e-03	114.5	165.6	140.1	36.5	98.72	13.50	n/a
S95T002162		A	Copper -ICP-Acid Digest	ug/g	92.94	1.70e-03	< 13.5200	<13.5500	n/a	n/a	94.36	13.50	n/a
S95T002162		A	Iron -ICP-Acid Digest	ug/g	90.75	1.41e-02	3.14e+03	5.11e+03	4.12e+03	48.0	n/a	67.60	n/a
S95T002162		A	Potassium -ICP-Acid Digest	ug/g	92.98	1.40e-01	570.5	847.6	709.0	39.1	90.03	406.0	n/a
S95T002162		A	Lanthanum -ICP-Acid Digest	ug/g	96.87	3.00e-04	< 67.6000	<67.7500	n/a	n/a	96.52	67.60	n/a
S95T002162		A	Lithium -ICP-Acid Digest	ug/g	98.73	-1.80e-03	< 13.5200	<13.5500	n/a	n/a	96.26	13.50	n/a
S95T002162		A	Magnesium -ICP-Acid Digest	ug/g	93.90	1.43e-02	665.9	1.11e+03	887.9	50.0	n/a	135.0	n/a
S95T002162		A	Manganese -ICP-Acid Digest	ug/g	87.77	-1.00e-03	70.61	113.9	92.26	47.0	94.11	13.50	n/a
S95T002162		A	Molybdenum -ICP-Acid Digest	ug/g	91.93	2.00e-04	< 67.6000	<67.7500	n/a	n/a	95.45	67.60	n/a
S95T002162		A	Sodium -ICP-Acid Digest	ug/g	154.8	8.34e-02	2.17e+05	1.87e+05	2.02e+05	14.7	n/a	135.0	n/a
S95T002162		A	Neodymium -ICP-Acid Digest	ug/g	98.08	-1.00e-03	<135.2000	<135.500	n/a	n/a	95.92	135.0	n/a
S95T002162		A	Nickel -ICP-Acid Digest	ug/g	88.39	-6.00e-04	287.1	390.0	338.6	30.4	105.1	27.00	n/a
S95T002162		A	Phosphorus -ICP-Acid Digest	ug/g	91.79	6.18e-02	2.34e+03	4.14e+03	3.24e+03	55.5	n/a	270.0	n/a
S95T002162		A	Lead -ICP-Acid Digest	ug/g	84.25	1.48e-02	<135.2000	165.0	n/a	n/a	118.3	135.0	n/a
S95T002162		A	Sulfur -ICP-Acid Digest	ug/g	85.28	4.54e-02	3.52e+03	3.29e+03	3.41e+03	6.67	n/a	67.60	n/a
S95T002162		A	Antimony -ICP-Acid Digest	ug/g	82.59	5.60e-03	<270.4000	<271.000	n/a	n/a	57.18	270.0	n/a
S95T002162		A	Selenium -ICP-Acid Digest	ug/g	91.13	3.63e-02	<135.2000	<135.500	n/a	n/a	97.69	135.0	n/a
S95T002162		A	Silicon -ICP-Acid Digest	ug/g	82.55	1.41e-01	315.8	282.2	299.0	11.2	n/a	67.60	n/a
S95T002162		A	Samarium -ICP-Acid Digest	ug/g	98.56	-5.39e-02	<135.2000	<135.500	n/a	n/a	92.81	135.0	n/a
S95T002162		A	Strontium -ICP-Acid Digest	ug/g	95.54	-6.00e-04	101.9	163.5	132.7	46.4	100.9	13.50	n/a
S95T002162		A	Titanium-ICP-Acid Digest	ug/g	92.26	7.00e-04	178.8	282.3	230.5	44.9	102.1	13.50	n/a
S95T002162		A	Thallium -ICP-Acid Digest	ug/g	88.12	2.95e-02	<270.4000	<271.000	n/a	n/a	94.29	270.0	n/a
S95T002162		A	Uranium -ICP-Acid Digest	ug/g	98.38	-1.90e-01	<540.8000	<542.000	n/a	n/a	100.6	541.0	n/a
S95T002162		A	Vanadium -ICP-Acid Digest	ug/g	90.54	-1.10e-02	< 67.6000	<67.7500	n/a	n/a	92.74	67.60	n/a
S95T002162		A	Zinc -ICP-Acid Digest	ug/g	82.97	1.17e-02	30.57	40.29	35.43	27.4	94.26	13.50	n/a
S95T002162		A	Zirconium -ICP-Acid Digest	ug/g	93.01	-8.10e-03	20.87	35.17	28.02	51.0	86.96	13.50	n/a

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002343			Undecane (C11)	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	n/a	241.0	n/a
S95T002343			Tridecane (C13)	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	n/a	241.0	n/a
S95T002343			Tetradecane (C14)	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	n/a	241.0	n/a
S95T002343			Tri-n-butylphosphate	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	85.47	241.0	n/a
S95T002343			Pentadecane (C15)	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	n/a	241.0	n/a
S95T002343			Nonane (C9)	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	81.29	241.0	n/a
S95T002343			Dodecane (C12)	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	n/a	241.0	n/a
S95T002343			Decane (C10)	ug/g	n/a	n/a	U	241.00	241.00U	n/a	n/a	n/a	241.0	n/a
S95T002558		W	Bromide by Ion Chromatograph	ug/g	98.94	<1.26e-01	<	3.33e3	<1.42e3	n/a	n/a	95.70	3.33e+03	n/a
S95T002558		W	Chloride by IC - Dionex 4000i	ug/g	101.4	<1.70e-02		1.62e+03	474.0	1.05e+03	109	95.00	450.0	n/a
S95T002558		W	Fluoride by IC - Dionex 4000i	ug/g	100.7	<1.30e-02		4.28e+03	3.17e+03	3.72e+03	29.8	95.50	344.0	n/a
S95T002558		W	Nitrite by IC - Dionex 4000i	ug/g	99.29	<1.07e-01		1.20e+04	7.24e+03	9.62e+03	49.5	93.70	4.50e+03	n/a
S95T002558		W	Nitrate by IC - Dionex 4000i	ug/g	98.91	<1.40e-01		3.75e+05	5.15e+05	4.45e+05	31.5	101.1	3.70e+03	n/a
S95T002558		W	Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01		1.03e+04	7.21e+03	8.76e+03	35.3	101.8	2.78e+03	n/a
S95T002558		W	Phosphate by IC - Dionex 4000i	ug/g	97.62	<2.96e-01	<	7.83e3	<3.33e3	n/a	n/a	98.60	7.83e+03	n/a
S95T002558		W	Sulfate by IC - Dionex 4000i	ug/g	98.21	<1.36e-01		1.51e+04	1.01e+04	1.26e+04	39.7	91.80	3.60e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 104
SEGMENT #: 2(B)

SEGMENT PORTION: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001967			TOC by Persulfate/Coulometry	ug/g	90.00	9.800	4.24e+03	4.84e+03	4.54e+03	13.2	106.0	40.00	n/a
S95T001967			% Water by TGA using Mettler	%	101.2	n/a	33.54	29.90	31.72	11.5	n/a	n/a	n/a
S95T001967			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001967			DSC Exotherm using Mettler	Joules/g	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001967			Cyanide by Microdist. & Spec.	ug/g	107.9	1.03e-01	112.0	80.80	96.40	32.4	104.1	23.20	n/a
S95T002003		F	Alpha of Digested Solid	uCi/g	107.4	<2.79e-03	4.74e-03	5.12e-03	4.93e-03	7.71	93.30	3.80e-03	1.30E+02
S95T002163		A	Silver -ICP-Acid Digest	ug/g	86.40	4.00e-04	< 13.5900	<15.0000	n/a	n/a	n/a	13.60	n/a
S95T002163		A	Aluminium -ICP-Acid Digest	ug/g	102.4	3.79e-02	4.27e+04	4.17e+04	4.22e+04	2.48	n/a	67.10	n/a
S95T002163		A	Arsenic -ICP-Acid Digest	ug/g	89.81	-4.50e-03	< 67.9500	<75.0000	n/a	n/a	n/a	67.10	n/a
S95T002163		A	Boron -ICP-Acid Digest	ug/g	119.5	2.48e-02	< 67.9500	<75.0000	n/a	n/a	n/a	67.10	n/a
S95T002163		A	Barium -ICP-Acid Digest	ug/g	94.04	5.00e-04	340.3	329.5	334.9	3.20	n/a	67.10	n/a
S95T002163		A	Beryllium -ICP-Acid Digest	ug/g	99.19	1.00e-04	< 6.7950	<7.5000	n/a	n/a	n/a	6.790	n/a
S95T002163		A	Bismuth -ICP-Acid Digest	ug/g	86.69	1.79e-02	<135.9000	<150.000	n/a	n/a	n/a	136.0	n/a
S95T002163		A	Calcium -ICP-Acid Digest	ug/g	104.5	1.35e-01	2.83e+03	2.74e+03	2.78e+03	2.97	n/a	136.0	n/a
S95T002163		A	Cadmium -ICP-Acid Digest	ug/g	86.01	6.00e-04	< 13.5900	<15.0000	n/a	n/a	n/a	13.60	n/a
S95T002163		A	Cerium -ICP-Acid Digest	ug/g	97.18	2.80e-03	<135.9000	<150.000	n/a	n/a	n/a	136.0	n/a
S95T002163		A	Cobalt -ICP-Acid Digest	ug/g	89.09	4.00e-04	< 27.1800	<30.0000	n/a	n/a	n/a	27.20	n/a
S95T002163		A	Chromium -ICP-Acid Digest	ug/g	90.27	3.30e-03	129.6	123.2	126.4	5.02	n/a	13.60	n/a
S95T002163		A	Copper -ICP-Acid Digest	ug/g	92.94	1.70e-03	< 13.5900	<15.0000	n/a	n/a	n/a	13.60	n/a
S95T002163		A	Iron -ICP-Acid Digest	ug/g	90.75	1.41e-02	3.20e+03	3.15e+03	3.17e+03	1.63	n/a	67.10	n/a
S95T002163		A	Potassium -ICP-Acid Digest	ug/g	92.98	1.40e-01	1.26e+03	1.02e+03	1.14e+03	21.3	n/a	408.0	n/a
S95T002163		A	Lanthanum -ICP-Acid Digest	ug/g	96.87	3.00e-04	< 67.9500	<75.0000	n/a	n/a	n/a	67.10	n/a
S95T002163		A	Lithium -ICP-Acid Digest	ug/g	98.73	-1.80e-03	< 13.5900	<15.0000	n/a	n/a	n/a	13.60	n/a
S95T002163		A	Magnesium -ICP-Acid Digest	ug/g	93.90	1.43e-02	690.5	675.7	683.1	2.17	n/a	136.0	n/a
S95T002163		A	Manganese -ICP-Acid Digest	ug/g	87.77	-1.00e-03	66.50	65.56	66.03	1.42	n/a	13.60	n/a
S95T002163		A	Molybdenum -ICP-Acid Digest	ug/g	91.93	2.00e-04	< 67.9500	<75.0000	n/a	n/a	n/a	67.10	n/a
S95T002163		A	Sodium -ICP-Acid Digest	ug/g	154.8	8.34e-02	1.91e+05	1.94e+05	1.93e+05	1.68	n/a	136.0	n/a
S95T002163		A	Neodymium -ICP-Acid Digest	ug/g	98.08	-1.00e-03	<135.9000	<150.000	n/a	n/a	n/a	136.0	n/a
S95T002163		A	Nickel -ICP-Acid Digest	ug/g	88.39	-6.00e-04	275.0	267.8	271.4	2.66	n/a	27.20	n/a
S95T002163		A	Phosphorus -ICP-Acid Digest	ug/g	91.79	6.18e-02	6.40e+03	4.65e+03	5.52e+03	31.8	n/a	272.0	n/a
S95T002163		A	Lead -ICP-Acid Digest	ug/g	84.25	1.48e-02	151.6	153.1	152.4	0.94	n/a	136.0	n/a
S95T002163		A	Sulfur -ICP-Acid Digest	ug/g	85.28	4.54e-02	5.85e+03	5.63e+03	5.74e+03	3.86	n/a	67.10	n/a
S95T002163		A	Antimony -ICP-Acid Digest	ug/g	82.59	5.60e-03	<271.8000	<300.000	n/a	n/a	n/a	272.0	n/a
S95T002163		A	Selenium -ICP-Acid Digest	ug/g	91.13	3.63e-02	<135.9000	<150.000	n/a	n/a	n/a	136.0	n/a
S95T002163		A	Silicon -ICP-Acid Digest	ug/g	82.55	1.41e-01	268.0	279.3	273.6	4.16	n/a	67.10	n/a
S95T002163		A	Samarium -ICP-Acid Digest	ug/g	98.56	-5.39e-02	<135.9000	<150.000	n/a	n/a	n/a	136.0	n/a
S95T002163		A	Strontium -ICP-Acid Digest	ug/g	95.54	-6.00e-04	104.1	102.1	103.1	1.94	n/a	13.60	n/a
S95T002163		A	Titanium-ICP-Acid Digest	ug/g	92.26	7.00e-04	198.0	193.8	195.9	2.13	n/a	13.60	n/a
S95T002163		A	Thallium -ICP-Acid Digest	ug/g	88.12	2.95e-02	<271.8000	<300.000	n/a	n/a	n/a	272.0	n/a
S95T002163		A	Uranium -ICP-Acid Digest	ug/g	98.38	-1.90e-01	<543.6000	<600.000	n/a	n/a	n/a	544.0	n/a
S95T002163		A	Vanadium -ICP-Acid Digest	ug/g	90.54	-1.10e-02	< 67.9500	<75.0000	n/a	n/a	n/a	67.10	n/a
S95T002163		A	Zinc -ICP-Acid Digest	ug/g	82.97	1.17e-02	32.24	33.76	33.00	4.60	n/a	13.60	n/a
S95T002163		A	Zirconium -ICP-Acid Digest	ug/g	93.01	-8.10e-03	15.96	<15.0000	n/a	n/a	n/a	13.60	n/a

WHC-SD-WM-DP-145, REV. 1

30

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002344			Undecane (C11)	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	n/a	300.0	n/a
S95T002344			Tridecane (C13)	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	n/a	300.0	n/a
S95T002344			Tetradecane (C14)	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	n/a	300.0	n/a
S95T002344			Tri-n-butylphosphate	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	94.46	300.0	n/a
S95T002344			Pentadecane (C15)	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	n/a	300.0	n/a
S95T002344			Nonane (C9)	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	86.12	300.0	n/a
S95T002344			Dodecane (C12)	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	n/a	300.0	n/a
S95T002344			Decane (C10)	ug/g	n/a	n/a	U	300.00	286.00U	n/a	n/a	n/a	300.0	n/a
S95T002559		W	Bromide by Ion Chromatograph	ug/g	98.94	<1.26e-01	<	2.44e3	<2.11e3	n/a	n/a	n/a	2.44e+03	n/a
S95T002559		W	Chloride by IC - Dionex 4000i	ug/g	101.4	<1.70e-02		1.12e+03	1.40e+03	1.26e+03	22.2	n/a	329.0	n/a
S95T002559		W	Fluoride by IC - Dionex 4000i	ug/g	100.7	<1.30e-02		7.29e+03	5.92e+03	6.60e+03	20.7	n/a	252.0	n/a
S95T002559		W	Nitrite by IC - Dionex 4000i	ug/g	99.29	<1.07e-01		1.76e+04	1.77e+04	1.76e+04	0.10	n/a	329.0	n/a
S95T002559		W	Nitrate by IC - Dionex 4000i	ug/g	98.91	<1.40e-01		1.63e+05	1.75e+05	1.69e+05	6.90	n/a	2.71e+03	n/a
S95T002559		W	Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01		1.52e+04	1.47e+04	1.50e+04	3.34	n/a	2.03e+03	n/a
S95T002559		W	Phosphate by IC - Dionex 4000i	ug/g	97.62	<2.96e-01		2.31e+04	9.01e+03	1.61e+04	87.8	n/a	5.73e+03	n/a
S95T002559		W	Sulfate by IC - Dionex 4000i	ug/g	98.21	<1.36e-01		1.98e+04	1.98e+04	1.98e+04	0.00	n/a	2.63e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 2(C)

TABLE 2

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001968			TOC by Persulfate/Coulometry	ug/g	90.00	9.800	2.81e+03	2.87e+03	2.84e+03	2.11	n/a	40.00	n/a
S95T001968			% Water by TGA on Perkin Elmer	%	101.3	n/a	15.40	9.880	12.64	43.7	n/a	n/a	n/a
S95T001968			DSC Exotherm on Perkin Elmer	Joules/g	99.26	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001968			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001968			Cyanide by Microdist. & Spec.	ug/g	110.2	1.20e-01	390.0	310.0	350.0	22.9	104.0	14.40	n/a
S95T002004		F	Alpha of Digested Solid	uCi/g	107.4	<2.79e-03	6.20e-03	6.17e-03	6.18e-03	0.49	91.74	3.83e-03	5.99E+01
S95T002164		A	Silver -ICP-Acid Digest	ug/g	86.40	4.00e-04	< 10.5700	<10.2500	n/a	n/a	n/a	10.60	n/a
S95T002164		A	Aluminium -ICP-Acid Digest	ug/g	102.4	3.79e-02	3.68e+04	3.24e+04	3.46e+04	12.7	n/a	52.90	n/a
S95T002164		A	Arsenic -ICP-Acid Digest	ug/g	89.81	-4.50e-03	< 52.8500	<51.2500	n/a	n/a	n/a	52.90	n/a
S95T002164		A	Boron -ICP-Acid Digest	ug/g	119.5	2.48e-02	< 52.8500	<51.2500	n/a	n/a	n/a	52.90	n/a
S95T002164		A	Barium -ICP-Acid Digest	ug/g	94.04	5.00e-04	143.9	130.8	137.3	9.55	n/a	52.90	n/a
S95T002164		A	Beryllium -ICP-Acid Digest	ug/g	99.19	1.00e-04	< 5.2850	<5.1250	n/a	n/a	n/a	5.290	n/a
S95T002164		A	Bismuth -ICP-Acid Digest	ug/g	86.69	1.79e-02	<105.7000	<102.500	n/a	n/a	n/a	106.0	n/a
S95T002164		A	Calcium -ICP-Acid Digest	ug/g	104.5	1.35e-01	1.70e+03	1.51e+03	1.61e+03	11.6	n/a	106.0	n/a
S95T002164		A	Cadmium -ICP-Acid Digest	ug/g	86.01	6.00e-04	< 10.5700	<10.2500	n/a	n/a	n/a	10.60	n/a
S95T002164		A	Cerium -ICP-Acid Digest	ug/g	97.18	2.80e-03	<105.7000	<102.500	n/a	n/a	n/a	106.0	n/a
S95T002164		A	Cobalt -ICP-Acid Digest	ug/g	89.09	4.00e-04	< 21.1400	<20.5000	n/a	n/a	n/a	21.10	n/a
S95T002164		A	Chromium -ICP-Acid Digest	ug/g	90.27	3.30e-03	138.4	117.0	127.7	16.7	n/a	10.60	n/a
S95T002164		A	Copper -ICP-Acid Digest	ug/g	92.94	1.70e-03	< 10.5700	<10.2500	n/a	n/a	n/a	10.60	n/a
S95T002164		A	Iron -ICP-Acid Digest	ug/g	90.75	1.41e-02	2.21e+03	2.00e+03	2.11e+03	9.98	n/a	52.90	n/a
S95T002164		A	Potassium -ICP-Acid Digest	ug/g	92.98	1.40e-01	1.27e+03	1.27e+03	1.27e+03	0.04	n/a	317.0	n/a
S95T002164		A	Lanthanum -ICP-Acid Digest	ug/g	96.87	3.00e-04	< 52.8500	<51.2500	n/a	n/a	n/a	52.90	n/a
S95T002164		A	Lithium -ICP-Acid Digest	ug/g	98.73	-1.80e-03	< 10.5700	<10.2500	n/a	n/a	n/a	10.60	n/a
S95T002164		A	Magnesium -ICP-Acid Digest	ug/g	93.90	1.43e-02	461.0	399.3	430.1	14.3	n/a	106.0	n/a
S95T002164		A	Manganese -ICP-Acid Digest	ug/g	87.77	-1.00e-03	40.70	34.71	37.70	15.9	n/a	10.60	n/a
S95T002164		A	Molybdenum -ICP-Acid Digest	ug/g	91.93	2.00e-04	< 52.8500	<51.2500	n/a	n/a	n/a	52.90	n/a
S95T002164		A	Sodium -ICP-Acid Digest	ug/g	154.8	8.34e-02	1.83e+05	1.88e+05	1.85e+05	3.02	n/a	106.0	n/a
S95T002164		A	Neodymium -ICP-Acid Digest	ug/g	98.08	-1.00e-03	<105.7000	<102.500	n/a	n/a	n/a	106.0	n/a
S95T002164		A	Nickel -ICP-Acid Digest	ug/g	88.39	-6.00e-04	432.5	385.6	409.0	11.5	n/a	21.10	n/a
S95T002164		A	Phosphorus -ICP-Acid Digest	ug/g	91.79	6.18e-02	2.05e+03	3.45e+03	2.75e+03	50.9	n/a	211.0	n/a
S95T002164		A	Lead -ICP-Acid Digest	ug/g	84.25	1.48e-02	125.9	<102.500	n/a	n/a	n/a	106.0	n/a
S95T002164		A	Sulfur -ICP-Acid Digest	ug/g	85.28	4.54e-02	5.16e+03	4.82e+03	4.99e+03	6.74	n/a	52.90	n/a
S95T002164		A	Antimony -ICP-Acid Digest	ug/g	82.59	5.60e-03	<211.4000	<205.000	n/a	n/a	n/a	211.0	n/a
S95T002164		A	Selenium -ICP-Acid Digest	ug/g	91.13	3.63e-02	<105.7000	<102.500	n/a	n/a	n/a	106.0	n/a
S95T002164		A	Silicon -ICP-Acid Digest	ug/g	82.55	1.41e-01	220.9	245.2	233.1	10.4	n/a	52.90	n/a
S95T002164		A	Samarium -ICP-Acid Digest	ug/g	98.56	-5.39e-02	<105.7000	<102.500	n/a	n/a	n/a	106.0	n/a
S95T002164		A	Strontium -ICP-Acid Digest	ug/g	95.54	-6.00e-04	147.9	130.1	139.0	12.8	n/a	10.60	n/a
S95T002164		A	Titanium-ICP-Acid Digest	ug/g	92.26	7.00e-04	121.0	109.2	115.1	10.2	n/a	10.60	n/a
S95T002164		A	Thallium -ICP-Acid Digest	ug/g	88.12	2.95e-02	<211.4000	<205.000	n/a	n/a	n/a	211.0	n/a
S95T002164		A	Uranium -ICP-Acid Digest	ug/g	98.38	-1.90e-01	<422.8000	<410.000	n/a	n/a	n/a	423.0	n/a
S95T002164		A	Vanadium -ICP-Acid Digest	ug/g	90.54	-1.10e-02	< 52.8500	<51.2500	n/a	n/a	n/a	52.90	n/a
S95T002164		A	Zinc -ICP-Acid Digest	ug/g	82.97	1.17e-02	31.29	30.30	30.79	3.22	n/a	10.60	n/a
S95T002164		A	Zirconium -ICP-Acid Digest	ug/g	93.01	-8.10e-03	< 10.5700	<10.2500	n/a	n/a	n/a	10.60	n/a

WHC-SD-WM-DP-145, REV. 1

32

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002345			Undecane (C11)	ug/g	n/a	n/a	J	5.180	4.080J	n/a	n/a	n/a	225.0	n/a
S95T002345			Tridecane (C13)	ug/g	n/a	n/a	J	18.400	14.500J	n/a	n/a	n/a	225.0	n/a
S95T002345			Tetradecane (C14)	ug/g	n/a	n/a	J	14.400	13.200J	n/a	n/a	n/a	225.0	n/a
S95T002345			Tri-n-butylphosphate	ug/g	n/a	n/a	U	225.00	237.00U	n/a	n/a	102.9	225.0	n/a
S95T002345			Pentadecane (C15)	ug/g	n/a	n/a	J	7.640	6.110J	n/a	n/a	n/a	225.0	n/a
S95T002345			Nonane (C9)	ug/g	n/a	n/a	U	225.00	237.00U	n/a	n/a	96.95	225.0	n/a
S95T002345			Dodecane (C12)	ug/g	n/a	n/a	J	13.600	10.700J	n/a	n/a	n/a	225.0	n/a
S95T002345			Decane (C10)	ug/g	n/a	n/a	U	225.00	237.00U	n/a	n/a	n/a	225.0	n/a
S95T002560		W	Bromide by Ion Chromatograph	ug/g	99.22	<1.26e-01	<	1.76e3	<1.76e3	n/a	n/a	97.00	1.76e+03	n/a
S95T002560		W	Chloride by IC - Dionex 4000i	ug/g	100.0	<1.70e-02		1.52e+03	1.40e3 1	n/a	n/a	97.90	238.0	n/a
S95T002560		W	Fluoride by IC - Dionex 4000i	ug/g	100.8	<1.30e-02		6.70e+03	5.93e+03	6.32e+03	12.2	96.20	182.0	n/a
S95T002560		W	Nitrite by IC - Dionex 4000i	ug/g	99.72	<1.07e-01		2.09e+04	1.95e+04	2.02e+04	6.93	96.00	1.50e+03	n/a
S95T002560		W	Nitrate by IC - Dionex 4000i	ug/g	100.3	<1.40e-01		1.85e+05	2.15e+05	2.00e+05	15.0	97.90	1.96e+03	n/a
S95T002560		W	Oxalate by IC - Dionex 4000i	ug/g	108.9	<1.05e-01		1.09e+04	1.06e+04	1.08e+04	2.79	108.8	1.47e+03	n/a
S95T002560		W	Phosphate by IC - Dionex 4000i	ug/g	92.67	<2.96e-01		8.63e+03	5.65e+03	7.14e+03	41.7	93.10	4.14e+03	n/a
S95T002560		W	Sulfate by IC - Dionex 4000i	ug/g	98.35	<1.36e-01		1.80e+04	1.64e+04	1.72e+04	9.30	94.30	1.90e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 3(A)

TABLE 2

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001969			TOC by Persulfate/Coulometry	ug/g	93.67	30.00	1.99e+03	2.13e+03	2.06e+03	6.79	n/a	40.00	n/a
S95T001969			% Water by TGA on Perkin Elmer	%	101.2	n/a	7.150	7.790	7.470	8.57	n/a	n/a	n/a
S95T001969			DSC Exotherm on Perkin Elmer	Joules/g	99.16	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001969			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001969			Cyanide by Microdist. & Spec.	ug/g	110.2	1.20e-01	163.0	161.0	162.0	1.23	110.0	16.10	n/a
S95T002005		F	Alpha of Digested Solid	uCi/g	92.09	<2.95e-03	<3.30E-03	1.83e-03	n/a	n/a	103.1	4.28e-03	1.87E+02
S95T002165		A	Silver -ICP-Acid Digest	ug/g	90.80	-3.00e-04	<1.08e+01	<1.07e1	n/a	n/a	102.0	10.80	n/a
S95T002165		A	Aluminium -ICP-Acid Digest	ug/g	103.8	3.28e-02	2.97e+04	2.94e+04	2.96e+04	1.02	2.91e+03	53.10	n/a
S95T002165		A	Arsenic -ICP-Acid Digest	ug/g	94.60	4.70e-03	<1.08e+02	<1.07e2	n/a	n/a	101.0	108.0	n/a
S95T002165		A	Boron -ICP-Acid Digest	ug/g	121.2	7.21e-02	<5.31e+01	<5.34e1	n/a	n/a	104.0	53.10	n/a
S95T002165		A	Barium -ICP-Acid Digest	ug/g	97.40	6.00e-04	75.10	80.40	77.75	6.82	103.0	53.10	n/a
S95T002165		A	Beryllium -ICP-Acid Digest	ug/g	102.2	-1.00e-04	<5.31e+00	<5.34e0	n/a	n/a	101.0	5.390	n/a
S95T002165		A	Bismuth -ICP-Acid Digest	ug/g	92.00	8.30e-03	<1.08e+02	<1.07e2	n/a	n/a	102.0	108.0	n/a
S95T002165		A	Calcium -ICP-Acid Digest	ug/g	115.2	1.25e-01	1.04e+03	1.12e+03	1.08e+03	7.41	230.2	108.0	n/a
S95T002165		A	Cadmium -ICP-Acid Digest	ug/g	90.00	-1.30e-03	<5.31e+00	<5.34e0	n/a	n/a	101.0	5.390	n/a
S95T002165		A	Cerium -ICP-Acid Digest	ug/g	100.6	1.00e-04	<1.08e+02	<1.07e2	n/a	n/a	101.0	108.0	n/a
S95T002165		A	Cobalt -ICP-Acid Digest	ug/g	93.20	4.00e-04	<2.16e+01	<2.14e1	n/a	n/a	102.0	21.60	n/a
S95T002165		A	Chromium -ICP-Acid Digest	ug/g	93.80	-4.00e-04	146.0	138.0	142.0	5.63	112.5	10.80	n/a
S95T002165		A	Copper -ICP-Acid Digest	ug/g	96.00	1.80e-03	<1.08e+01	<1.07e1	n/a	n/a	96.30	10.80	n/a
S95T002165		A	Iron -ICP-Acid Digest	ug/g	94.20	2.16e-02	1.33e+03	1.44e+03	1.38e+03	7.94	212.8	53.10	n/a
S95T002165		A	Potassium -ICP-Acid Digest	ug/g	94.60	-5.24e-02	1.41e+03	1.43e+03	1.42e+03	1.41	229.1	531.0	n/a
S95T002165		A	Lanthanum -ICP-Acid Digest	ug/g	99.60	-6.00e-04	<5.31e+01	<5.34e1	n/a	n/a	99.30	53.10	n/a
S95T002165		A	Lithium -ICP-Acid Digest	ug/g	99.60	-2.60e-03	<1.08e+01	<1.07e1	n/a	n/a	95.00	10.80	n/a
S95T002165		A	Magnesium -ICP-Acid Digest	ug/g	98.00	-4.80e-03	246.0	257.0	251.5	4.37	128.2	108.0	n/a
S95T002165		A	Manganese -ICP-Acid Digest	ug/g	91.40	-1.00e-04	21.10	22.40	21.75	5.98	98.00	10.80	n/a
S95T002165		A	Molybdenum -ICP-Acid Digest	ug/g	96.40	8.00e-04	<5.31e+01	<5.34e1	n/a	n/a	102.0	53.10	n/a
S95T002165		A	Sodium -ICP-Acid Digest	ug/g	157.4	1.53e-01	1.81e+05	1.83e+05	1.82e+05	1.10	1.74e+04	108.0	n/a
S95T002165		A	Neodymium -ICP-Acid Digest	ug/g	98.00	-3.90e-03	<1.08e+02	<1.07e2	n/a	n/a	96.70	108.0	n/a
S95T002165		A	Nickel -ICP-Acid Digest	ug/g	92.60	5.00e-03	249.0	254.0	251.5	1.99	128.9	21.60	n/a
S95T002165		A	Phosphorus -ICP-Acid Digest	ug/g	97.20	4.39e-02	5.21e+03	4.39e+03	4.80e+03	17.1	936.9	216.0	n/a
S95T002165		A	Lead -ICP-Acid Digest	ug/g	88.80	6.90e-03	<1.08e+02	<1.07e2	n/a	n/a	116.0	108.0	n/a
S95T002165		A	Sulfur -ICP-Acid Digest	ug/g	89.20	2.18e-02	3.19e+03	3.32e+03	3.26e+03	3.99	404.8	108.0	n/a
S95T002165		A	Antimony -ICP-Acid Digest	ug/g	87.80	-9.00e-04	<6.47e+01	<6.41e1	n/a	n/a	85.80	64.70	n/a
S95T002165		A	Selenium -ICP-Acid Digest	ug/g	93.40	3.81e-02	<1.08e+02	<1.07e2	n/a	n/a	106.0	108.0	n/a
S95T002165		A	Silicon -ICP-Acid Digest	ug/g	29.00	2.07e-01	241.0	322.0	281.5	28.8	90.60	53.10	n/a
S95T002165		A	Samarium -ICP-Acid Digest	ug/g	97.60	-3.96e-02	<1.08e+02	<1.07e2	n/a	n/a	95.20	108.0	n/a
S95T002165		A	Strontium -ICP-Acid Digest	ug/g	97.60	-4.00e-04	30.00	34.20	32.10	13.1	100.2	10.80	n/a
S95T002165		A	Titanium-ICP-Acid Digest	ug/g	96.00	2.00e-04	62.70	67.40	65.05	7.23	102.2	10.80	n/a
S95T002165		A	Thallium -ICP-Acid Digest	ug/g	90.00	-2.88e-02	<2.16e+02	<2.14e2	n/a	n/a	94.70	216.0	n/a
S95T002165		A	Uranium -ICP-Acid Digest	ug/g	96.10	-1.32e-01	<5.31e+02	<5.34e2	n/a	n/a	100.0	531.0	n/a
S95T002165		A	Vanadium -ICP-Acid Digest	ug/g	93.60	-7.20e-03	<5.31e+01	<5.34e1	n/a	n/a	98.30	53.10	n/a
S95T002165		A	Zinc -ICP-Acid Digest	ug/g	87.20	1.05e-02	33.90	25.90	29.90	26.8	103.9	10.80	n/a
S95T002165		A	Zirconium -ICP-Acid Digest	ug/g	96.40	-4.30e-03	<1.08e+01	<1.07e1	n/a	n/a	77.80	10.80	n/a

34

WHC-SD-WM-DP-145, REV. 1

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002346			Undecane (C11)	ug/g	n/a	n/a	J	1.470	1.700J	n/a	n/a	n/a	290.0	n/a
S95T002346			Tridecane (C13)	ug/g	n/a	n/a	J	1.070	1.640J	n/a	n/a	n/a	290.0	n/a
S95T002346			Tetradecane (C14)	ug/g	n/a	n/a	U	290.00	272.00U	n/a	n/a	n/a	290.0	n/a
S95T002346			Tri-n-butylphosphate	ug/g	n/a	n/a	U	290.00	272.00U	n/a	n/a	100.5	290.0	n/a
S95T002346			Pentadecane (C15)	ug/g	n/a	n/a	U	290.00	272.00U	n/a	n/a	n/a	290.0	n/a
S95T002346			Nonane (C9)	ug/g	n/a	n/a	U	290.00	272.00U	n/a	n/a	93.74	290.0	n/a
S95T002346			Dodecane (C12)	ug/g	n/a	n/a	J	1.900	1.640J	n/a	n/a	n/a	290.0	n/a
S95T002346			Decane (C10)	ug/g	n/a	n/a	U	290.00	272.00U	n/a	n/a	n/a	290.0	n/a
S95T002561		W	Bromide by Ion Chromatograph	ug/g	99.22	<1.26e-01	<	1.47e3	<1.47e3	n/a	n/a	n/a	1.47e+03	n/a
S95T002561		W	Chloride by IC - Dionex 4000i	ug/g	100.0	<1.70e-02		1.82e+03	1.67e+03	1.74e+03	8.60	n/a	198.0	n/a
S95T002561		W	Fluoride by IC - Dionex 4000i	ug/g	100.8	<1.30e-02		5.17e+03	5.38e+03	5.28e+03	3.98	n/a	152.0	n/a
S95T002561		W	Nitrite by IC - Dionex 4000i	ug/g	99.72	<1.07e-01		2.25e+04	2.27e+04	2.26e+04	0.88	n/a	1.25e+03	n/a
S95T002561		W	Nitrate by IC - Dionex 4000i	ug/g	100.3	<1.40e-01		2.24e+05	1.99e+05	2.12e+05	11.9	n/a	1.63e+03	n/a
S95T002561		W	Oxalate by IC - Dionex 4000i	ug/g	108.9	<1.05e-01		8.07e+03	8.41e+03	8.24e+03	4.13	n/a	1.22e+03	n/a
S95T002561		W	Phosphate by IC - Dionex 4000i	ug/g	92.67	<2.96e-01		9.70e+03	9.97e+03	9.84e+03	2.70	n/a	3.45e+03	n/a
S95T002561		W	Sulfate by IC - Dionex 4000i	ug/g	98.35	<1.36e-01		1.13e+04	1.20e+04	1.16e+04	6.01	n/a	1.59e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 3(C)

TABLE 2

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001970			TOC by Persulfate/Coulometry	ug/g	93.67	30.00	1.59e+03	1.48e+03	1.54e+03	7.17	80.40	40.00	n/a
S95T001970			% Water by TGA using Mettler	%	97.07	n/a	11.12	7.680	9.400	36.6	n/a	n/a	n/a
S95T001970			DSC Exotherm on Perkin Elmer	Joules/g	99.79	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001970			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001970			Cyanide by Microdist. & Spec.	ug/g	105.4	8.43e-02	150.0	160.0	155.0	6.45	100.7	8.200	n/a
S95T002006		F	Alpha of Digested Solid	uCi/g	96.77	6.54e-03	4.05e-03	<4.69E-3	n/a	n/a	91.74	9.66e-03	1.40E+02
S95T002166		A	Silver -ICP-Acid Digest	ug/g	90.80	-3.00e-04	<1.06e+01	<1.02e1	n/a	n/a	n/a	10.60	n/a
S95T002166		A	Aluminium -ICP-Acid Digest	ug/g	103.8	3.28e-02	5.29e+04	5.42e+04	5.36e+04	2.43	n/a	53.10	n/a
S95T002166		A	Arsenic -ICP-Acid Digest	ug/g	94.60	4.70e-03	<1.06e+02	<1.02e2	n/a	n/a	n/a	106.0	n/a
S95T002166		A	Boron -ICP-Acid Digest	ug/g	121.2	7.21e-02	<5.31e+01	<5.08e1	n/a	n/a	n/a	53.10	n/a
S95T002166		A	Barium -ICP-Acid Digest	ug/g	97.40	6.00e-04	258.0	265.0	261.5	2.68	n/a	53.10	n/a
S95T002166		A	Beryllium -ICP-Acid Digest	ug/g	102.2	-1.00e-04	<5.31e+00	<5.08e0	n/a	n/a	n/a	5.310	n/a
S95T002166		A	Bismuth -ICP-Acid Digest	ug/g	92.00	8.30e-03	<1.06e+02	<1.02e2	n/a	n/a	n/a	106.0	n/a
S95T002166		A	Calcium -ICP-Acid Digest	ug/g	115.2	1.25e-01	3.00e+03	3.06e+03	3.03e+03	1.98	n/a	106.0	n/a
S95T002166		A	Cadmium -ICP-Acid Digest	ug/g	90.00	-1.30e-03	<5.31e+00	<5.08e0	n/a	n/a	n/a	5.310	n/a
S95T002166		A	Cerium -ICP-Acid Digest	ug/g	100.6	1.00e-04	<1.06e+02	<1.02e2	n/a	n/a	n/a	106.0	n/a
S95T002166		A	Cobalt -ICP-Acid Digest	ug/g	93.20	4.00e-04	<2.12e+01	<2.03e1	n/a	n/a	n/a	21.20	n/a
S95T002166		A	Chromium -ICP-Acid Digest	ug/g	93.80	-4.00e-04	162.0	163.0	162.5	0.62	n/a	10.60	n/a
S95T002166		A	Copper -ICP-Acid Digest	ug/g	96.00	1.80e-03	<1.06e+01	<1.02e1	n/a	n/a	n/a	10.60	n/a
S95T002166		A	Iron -ICP-Acid Digest	ug/g	94.20	2.16e-02	3.37e+03	3.50e+03	3.44e+03	3.78	n/a	53.10	n/a
S95T002166		A	Potassium -ICP-Acid Digest	ug/g	94.60	5.24e-02	1.27e+03	1.17e+03	1.22e+03	8.20	n/a	531.0	n/a
S95T002166		A	Lanthanum -ICP-Acid Digest	ug/g	99.60	-6.00e-04	<5.31e+01	<5.08e1	n/a	n/a	n/a	53.10	n/a
S95T002166		A	Lithium -ICP-Acid Digest	ug/g	99.60	-2.60e-03	<1.06e+01	<1.02e1	n/a	n/a	n/a	10.60	n/a
S95T002166		A	Magnesium -ICP-Acid Digest	ug/g	98.00	-4.80e-03	754.0	788.0	771.0	4.41	n/a	106.0	n/a
S95T002166		A	Manganese -ICP-Acid Digest	ug/g	91.40	-1.00e-04	72.40	74.90	73.65	3.39	n/a	10.60	n/a
S95T002166		A	Molybdenum -ICP-Acid Digest	ug/g	96.40	8.00e-04	<5.31e+01	<5.08e1	n/a	n/a	n/a	53.10	n/a
S95T002166		A	Sodium -ICP-Acid Digest	ug/g	157.4	1.53e-01	1.63e+05	1.58e+05	1.60e+05	3.12	n/a	106.0	n/a
S95T002166		A	Neodymium -ICP-Acid Digest	ug/g	98.00	-3.90e-03	<1.06e+02	<1.02e2	n/a	n/a	n/a	106.0	n/a
S95T002166		A	Nickel -ICP-Acid Digest	ug/g	92.60	5.00e-03	291.0	297.0	294.0	2.04	n/a	21.20	n/a
S95T002166		A	Phosphorus -ICP-Acid Digest	ug/g	97.20	4.39e-02	3.11e+03	2.37e+03	2.74e+03	27.0	n/a	212.0	n/a
S95T002166		A	Lead -ICP-Acid Digest	ug/g	88.80	6.90e-03	164.0	153.0	158.5	6.94	n/a	106.0	n/a
S95T002166		A	Sulfur -ICP-Acid Digest	ug/g	89.20	2.18e-02	2.68e+03	2.76e+03	2.72e+03	2.94	n/a	106.0	n/a
S95T002166		A	Antimony -ICP-Acid Digest	ug/g	87.80	-9.00e-04	<6.37e+01	<6.10e1	n/a	n/a	n/a	63.70	n/a
S95T002166		A	Selenium -ICP-Acid Digest	ug/g	93.40	3.81e-02	<1.06e+02	<1.02e2	n/a	n/a	n/a	106.0	n/a
S95T002166		A	Silicon -ICP-Acid Digest	ug/g	29.00	2.07e-01	263.0	254.0	258.5	3.48	n/a	53.10	n/a
S95T002166		A	Samarium -ICP-Acid Digest	ug/g	97.60	-3.96e-02	<1.06e+02	<1.02e2	n/a	n/a	n/a	106.0	n/a
S95T002166		A	Strontium -ICP-Acid Digest	ug/g	97.60	-4.00e-04	117.0	120.0	118.5	2.53	n/a	10.60	n/a
S95T002166		A	Titanium-ICP-Acid Digest	ug/g	96.00	2.00e-04	195.0	201.0	198.0	3.03	n/a	10.60	n/a
S95T002166		A	Thallium -ICP-Acid Digest	ug/g	90.00	-2.88e-02	<2.12e+02	<2.03e2	n/a	n/a	n/a	212.0	n/a
S95T002166		A	Uranium -ICP-Acid Digest	ug/g	96.10	-1.32e-01	<5.31e+02	<5.08e2	n/a	n/a	n/a	531.0	n/a
S95T002166		A	Vanadium -ICP-Acid Digest	ug/g	93.60	-7.20e-03	<5.31e+01	<5.08e1	n/a	n/a	n/a	53.10	n/a
S95T002166		A	Zinc -ICP-Acid Digest	ug/g	87.20	1.05e-02	35.90	30.20	33.05	17.2	n/a	10.60	n/a
S95T002166		A	Zirconium -ICP-Acid Digest	ug/g	96.40	-4.30e-03	20.10	20.20	20.15	0.50	n/a	10.60	n/a

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002347			Undecane (C11)	ug/g	n/a	n/a	J	5.010	3.780J	n/a	n/a	n/a	342.0	n/a
S95T002347			Tridecane (C13)	ug/g	n/a	n/a	J	13.400	12.500J	n/a	n/a	n/a	342.0	n/a
S95T002347			Tetradecane (C14)	ug/g	n/a	n/a	J	15.300	12.100J	n/a	n/a	n/a	342.0	n/a
S95T002347			Tri-n-butylphosphate	ug/g	n/a	n/a	U	342.00	326.00U	n/a	n/a	82.37	342.0	n/a
S95T002347			Pentadecane (C15)	ug/g	n/a	n/a	J	6.320	4.440J	n/a	n/a	n/a	342.0	n/a
S95T002347			Nonane (C9)	ug/g	n/a	n/a	U	342.00	326.00U	n/a	n/a	81.44	342.0	n/a
S95T002347			Dodecane (C12)	ug/g	n/a	n/a	J	14.000	9.250J	n/a	n/a	n/a	342.0	n/a
S95T002347			Decane (C10)	ug/g	n/a	n/a	U	342.00	326.00U	n/a	n/a	n/a	342.0	n/a
S95T002562		W	Bromide by Ion Chromatograph	ug/g	99.60	<1.26e-01	<	9.43e2	<8.62e2	n/a	n/a	95.40	943.0	n/a
S95T002562		W	Chloride by IC - Dionex 4000i	ug/g	99.49	<1.70e-02		1.48e+03	970.0	1.22e+03	41.6	94.50	95.00	n/a
S95T002562		W	Fluoride by IC - Dionex 4000i	ug/g	101.4	<1.30e-02		3.38e+03	8.72e+03	6.05e+03	88.3	88.90	97.20	n/a
S95T002562		W	Nitrite by IC - Dionex 4000i	ug/g	94.40	<1.07e-01		2.14e+04	1.48e+04	1.81e+04	36.5	91.40	800.0	n/a
S95T002562		W	Nitrate by IC - Dionex 4000i	ug/g	97.62	<1.40e-01		1.50e+05	9.49e+04	1.22e+05	45.0	103.3	1.05e+03	n/a
S95T002562		W	Oxalate by IC - Dionex 4000i	ug/g	104.4	<1.05e-01		4.87e+03	3.31e+03	4.09e+03	38.1	104.4	785.0	n/a
S95T002562		W	Phosphate by IC - Dionex 4000i	ug/g	95.62	<2.96e-01		8.11e+03	6.72e+04	3.77e+04	157	95.20	2.21e+03	n/a
S95T002562		W	Sulfate by IC - Dionex 4000i	ug/g	97.15	<1.36e-01		8.99e+03	5.88e+03	7.44e+03	41.8	93.60	1.02e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 104
SEGMENT #: 3(D)

SEGMENT PORTION: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001971			TOC by Persulfate/Coulometry	ug/g	90.33	4.100	6.55e+03	6.24e+03	6.40e+03	4.85	94.70	40.00	n/a
S95T001971			% Water by TGA using Mettler	%	97.07	n/a	8.070	7.820	7.945	3.15	n/a	n/a	n/a
S95T001971			DSC Exotherm on Perkin Elmer	Joules/g	99.79	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001971			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001971			Cyanide by Microdist. & Spec.	ug/g	105.4	8.43e-02	181.0	166.0	173.5	8.65	98.30	7.300	n/a
S95T002007		F	Alpha of Digested Solid	uCi/g	96.77	6.54e-03	1.86e-02	1.82e-02	1.84e-02	2.17	90.18	1.01e-02	5.90E+01
S95T002167		A	Silver -ICP-Acid Digest	ug/g	90.80	-3.00e-04	<1.55e+01	<1.75e1	n/a	n/a	n/a	15.50	n/a
S95T002167		A	Aluminium -ICP-Acid Digest	ug/g	103.8	3.28e-02	3.11e+04	2.79e+04	2.95e+04	10.8	n/a	77.30	n/a
S95T002167		A	Arsenic -ICP-Acid Digest	ug/g	94.60	4.70e-03	<1.55e+02	<1.75e2	n/a	n/a	n/a	155.0	n/a
S95T002167		A	Boron -ICP-Acid Digest	ug/g	121.2	7.21e-02	<7.73e+01	<8.76e1	n/a	n/a	n/a	77.30	n/a
S95T002167		A	Barium -ICP-Acid Digest	ug/g	97.40	6.00e-04	110.0	<8.76e1	n/a	n/a	n/a	77.30	n/a
S95T002167		A	Beryllium -ICP-Acid Digest	ug/g	102.2	1.00e-04	<7.73e+00	<8.76e0	n/a	n/a	n/a	7.730	n/a
S95T002167		A	Bismuth -ICP-Acid Digest	ug/g	92.00	8.30e-03	<1.55e+02	<1.75e2	n/a	n/a	n/a	155.0	n/a
S95T002167		A	Calcium -ICP-Acid Digest	ug/g	115.2	1.25e-01	1.73e+03	1.47e+03	1.60e+03	16.2	n/a	155.0	n/a
S95T002167		A	Cadmium -ICP-Acid Digest	ug/g	90.00	1.30e-03	<7.73e+00	<8.76e0	n/a	n/a	n/a	7.730	n/a
S95T002167		A	Cerium -ICP-Acid Digest	ug/g	100.6	1.00e-04	<1.55e+02	<1.75e2	n/a	n/a	n/a	155.0	n/a
S95T002167		A	Cobalt -ICP-Acid Digest	ug/g	93.20	4.00e-04	<3.09e+01	<3.50e1	n/a	n/a	n/a	30.90	n/a
S95T002167		A	Chromium -ICP-Acid Digest	ug/g	93.80	-4.00e-04	238.0	271.0	254.5	13.0	n/a	15.50	n/a
S95T002167		A	Copper -ICP-Acid Digest	ug/g	96.00	1.80e-03	<1.55e+01	<1.75e1	n/a	n/a	n/a	15.50	n/a
S95T002167		A	Iron -ICP-Acid Digest	ug/g	94.20	2.16e-02	2.63e+03	2.24e+03	2.44e+03	16.0	n/a	77.30	n/a
S95T002167		A	Potassium -ICP-Acid Digest	ug/g	94.60	5.24e-02	1.03e+03	1.17e+03	1.10e+03	12.7	n/a	773.0	n/a
S95T002167		A	Lanthanum -ICP-Acid Digest	ug/g	99.60	-6.00e-04	<7.73e+01	<8.76e1	n/a	n/a	n/a	77.30	n/a
S95T002167		A	Lithium -ICP-Acid Digest	ug/g	99.60	-2.60e-03	<1.55e+01	<1.75e1	n/a	n/a	n/a	15.50	n/a
S95T002167		A	Magnesium -ICP-Acid Digest	ug/g	98.00	-4.80e-03	394.0	278.0	336.0	34.5	n/a	155.0	n/a
S95T002167		A	Manganese -ICP-Acid Digest	ug/g	91.40	-1.00e-04	40.70	34.10	37.40	17.6	n/a	15.50	n/a
S95T002167		A	Molybdenum -ICP-Acid Digest	ug/g	96.40	8.00e-04	<7.73e+01	<8.76e1	n/a	n/a	n/a	77.30	n/a
S95T002167		A	Sodium -ICP-Acid Digest	ug/g	157.4	1.53e-01	1.89e+05	1.91e+05	1.90e+05	1.05	n/a	155.0	n/a
S95T002167		A	Neodymium -ICP-Acid Digest	ug/g	98.00	-3.90e-03	<1.55e+02	<1.75e2	n/a	n/a	n/a	155.0	n/a
S95T002167		A	Nickel -ICP-Acid Digest	ug/g	92.60	5.00e-03	1.08e+03	1.12e+03	1.10e+03	3.64	n/a	30.90	n/a
S95T002167		A	Phosphorus -ICP-Acid Digest	ug/g	97.20	4.39e-02	4.71e+03	3.51e+03	4.11e+03	29.2	n/a	309.0	n/a
S95T002167		A	Lead -ICP-Acid Digest	ug/g	88.80	6.90e-03	<1.55e+02	<1.75e2	n/a	n/a	n/a	155.0	n/a
S95T002167		A	Sulfur -ICP-Acid Digest	ug/g	89.20	2.18e-02	7.10e+03	8.86e+03	7.98e+03	22.1	n/a	155.0	n/a
S95T002167		A	Antimony -ICP-Acid Digest	ug/g	87.80	-9.00e-04	<9.29e+01	<1.05e2	n/a	n/a	n/a	92.80	n/a
S95T002167		A	Selenium -ICP-Acid Digest	ug/g	93.40	3.81e-02	<1.55e+02	<1.75e2	n/a	n/a	n/a	155.0	n/a
S95T002167		A	Silicon -ICP-Acid Digest	ug/g	29.00	2.07e-01	431.0	527.0	479.0	20.0	n/a	77.30	n/a
S95T002167		A	Samarium -ICP-Acid Digest	ug/g	97.60	-3.96e-02	<1.55e+02	<1.75e2	n/a	n/a	n/a	155.0	n/a
S95T002167		A	Strontium -ICP-Acid Digest	ug/g	97.60	-4.00e-04	554.0	625.0	589.5	12.0	n/a	15.50	n/a
S95T002167		A	Titanium-ICP-Acid Digest	ug/g	96.00	2.00e-04	78.80	56.90	67.85	32.3	n/a	15.50	n/a
S95T002167		A	Thallium -ICP-Acid Digest	ug/g	90.00	-2.88e-02	<3.09e+02	<3.50e2	n/a	n/a	n/a	309.0	n/a
S95T002167		A	Uranium -ICP-Acid Digest	ug/g	96.10	-1.32e-01	1.18e+03	1.34e+03	1.26e+03	12.7	n/a	773.0	n/a
S95T002167		A	Vanadium -ICP-Acid Digest	ug/g	93.60	-7.20e-03	<7.73e+01	<8.76e1	n/a	n/a	n/a	77.30	n/a
S95T002167		A	Zinc -ICP-Acid Digest	ug/g	87.20	1.05e-02	32.30	32.10	32.20	0.62	n/a	15.50	n/a
S95T002167		A	Zirconium -ICP-Acid Digest	ug/g	96.40	-4.30e-03	<1.55e+01	<1.75e1	n/a	n/a	n/a	15.50	n/a

WHC-SD-WM-DP-145, REV. 1

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002348			Undecane (C11)	ug/g	n/a	n/a	J 32.400	21.200J	n/a	n/a	n/a	438.0	n/a
S95T002348			Tridecane (C13)	ug/g	n/a	n/a	J 142.000	87.100J	n/a	n/a	n/a	438.0	n/a
S95T002348			Tetradecane (C14)	ug/g	n/a	n/a	J 135.000	95.000J	n/a	n/a	n/a	438.0	n/a
S95T002348			Tri-n-butylphosphate	ug/g	n/a	n/a	U 0.000	495.00U	n/a	n/a	79.91	438.0	n/a
S95T002348			Pentadecane (C15)	ug/g	n/a	n/a	J 60.000	31.100J	n/a	n/a	n/a	438.0	n/a
S95T002348			Nonane (C9)	ug/g	n/a	n/a	U 0.000	495.00U	n/a	n/a	76.24	438.0	n/a
S95T002348			Dodecane (C12)	ug/g	n/a	n/a	J 92.500	57.300J	n/a	n/a	n/a	438.0	n/a
S95T002348			Decane (C10)	ug/g	n/a	n/a	U 0.000	495.00U	n/a	n/a	n/a	438.0	n/a
S95T002563		W	Bromide by Ion Chromatograph	ug/g	99.60	<1.26e-01	< 1.12e3	<1.10e3	n/a	n/a	n/a	1.12e+03	n/a
S95T002563		W	Chloride by IC - Dionex 4000i	ug/g	99.49	<1.70e-02	1.44e+03	1.52e+03	1.48e+03	5.41	n/a	113.0	n/a
S95T002563		W	Fluoride by IC - Dionex 4000i	ug/g	101.4	<1.30e-02	8.20e+03	8.28e+03	8.24e+03	0.97	n/a	115.0	n/a
S95T002563		W	Nitrite by IC - Dionex 4000i	ug/g	94.40	<1.07e-01	2.10e+04	2.23e+04	2.16e+04	6.00	n/a	949.0	n/a
S95T002563		W	Nitrate by IC - Dionex 4000i	ug/g	97.62	<1.40e-01	2.41e+05	2.22e+05	2.32e+05	8.21	n/a	1.24e+03	n/a
S95T002563		W	Oxalate by IC - Dionex 4000i	ug/g	104.4	<1.05e-01	1.11e+04	1.11e+04	1.11e+04	0.00	n/a	932.0	n/a
S95T002563		W	Phosphate by IC - Dionex 4000i	ug/g	95.62	<2.96e-01	1.02e+04	8.18e+03	9.19e+03	22.0	n/a	2.63e+03	n/a
S95T002563		W	Sulfate by IC - Dionex 4000i	ug/g	97.15	<1.36e-01	2.79e+04	2.90e+04	2.84e+04	3.87	n/a	1.21e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

TABLE 2

CORE NUMBER: 104
SEGMENT #: 4(A)

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001972			TOC by Persulfate/Coulometry	ug/g	90.33	4.100	4.76e+03	4.97e+03	4.86e+03	4.32	n/a	40.00	n/a
S95T001972			% Water by TGA using Mettler	%	100.7	n/a	31.01	33.09	32.05	6.49	n/a	n/a	n/a
S95T001972			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	60.93	0.00e+00	30.46	200	n/a	n/a	n/a
S95T001972			DSC Exotherm using Mettler	Joules/g	105.1	n/a	41.40	0.00e+00	20.70	200	n/a	n/a	n/a
S95T001972			Cyanide by Microdist. & Spec.	ug/g	102.1	1.08e-01	68.00	49.90	58.95	30.7	105.9	20.00	n/a
S95T002008		F	Alpha of Digested Solid	uCi/g	108.2	<1.91e-03	2.14e-03	<2.83E-3	n/a	n/a	78.57	3.85e-03	1.13E+02
S95T002168		A	Silver -ICP-Acid Digest	ug/g	94.10	-3.80e-04	<1.49e+01	<1.49e1	n/a	n/a	96.50	14.90	n/a
S95T002168		A	Aluminium -ICP-Acid Digest	ug/g	102.6	1.31e-02	1.18e+04	1.13e+04	1.16e+04	4.33	145.1	74.70	n/a
S95T002168		A	Arsenic -ICP-Acid Digest	ug/g	96.00	-1.40e-02	<1.49e+02	<1.49e2	n/a	n/a	95.90	149.0	n/a
S95T002168		A	Boron -ICP-Acid Digest	ug/g	113.6	2.64e-02	<7.47e+01	<7.47e1	n/a	n/a	136.0	74.70	n/a
S95T002168		A	Barium -ICP-Acid Digest	ug/g	97.00	6.30e-04	<7.47e+01	<7.47e1	n/a	n/a	93.70	74.70	n/a
S95T002168		A	Beryllium -ICP-Acid Digest	ug/g	103.8	2.70e-04	<7.47e+00	<7.47e0	n/a	n/a	99.60	7.470	n/a
S95T002168		A	Bismuth -ICP-Acid Digest	ug/g	93.20	-8.59e-03	<1.49e+02	<1.49e2	n/a	n/a	97.40	149.0	n/a
S95T002168		A	Calcium -ICP-Acid Digest	ug/g	97.80	1.14e-01	187.0	128.0	157.5	37.5	100.5	149.0	n/a
S95T002168		A	Cadmium -ICP-Acid Digest	ug/g	94.60	-6.30e-04	<7.47e+00	<7.47e0	n/a	n/a	98.10	7.470	n/a
S95T002168		A	Cerium -ICP-Acid Digest	ug/g	99.00	-6.86e-03	<1.49e+02	<1.49e2	n/a	n/a	97.40	149.0	n/a
S95T002168		A	Cobalt -ICP-Acid Digest	ug/g	97.40	-6.80e-04	<2.99e+01	<2.99e1	n/a	n/a	99.60	29.90	n/a
S95T002168		A	Chromium -ICP-Acid Digest	ug/g	97.00	1.20e-03	106.0	104.0	105.0	1.90	100.9	14.90	n/a
S95T002168		A	Copper -ICP-Acid Digest	ug/g	96.40	1.39e-03	<1.49e+01	<1.49e1	n/a	n/a	95.20	14.90	n/a
S95T002168		A	Iron -ICP-Acid Digest	ug/g	96.20	1.40e-02	332.0	297.0	314.5	11.1	90.80	74.70	n/a
S95T002168		A	Potassium -ICP-Acid Digest	ug/g	99.20	1.02e-01	904.0	807.0	855.5	11.3	132.5	747.0	n/a
S95T002168		A	Lanthanum -ICP-Acid Digest	ug/g	98.40	-9.00e-04	<7.47e+01	<7.47e1	n/a	n/a	97.40	74.70	n/a
S95T002168		A	Lithium -ICP-Acid Digest	ug/g	97.80	-6.80e-04	<1.49e+01	<1.49e1	n/a	n/a	94.40	14.90	n/a
S95T002168		A	Magnesium -ICP-Acid Digest	ug/g	95.00	1.76e-02	<1.49e+02	<1.49e2	n/a	n/a	97.40	149.0	n/a
S95T002168		A	Manganese -ICP-Acid Digest	ug/g	95.00	6.70e-04	<1.49e+01	<1.49e1	n/a	n/a	94.40	14.90	n/a
S95T002168		A	Molybdenum -ICP-Acid Digest	ug/g	97.40	4.51e-03	<7.47e+01	<7.47e1	n/a	n/a	98.80	74.70	n/a
S95T002168		A	Sodium -ICP-Acid Digest	ug/g	119.4	3.06e-01	2.24e+05	2.21e+05	2.22e+05	1.35	687.3	149.0	n/a
S95T002168		A	Neodymium -ICP-Acid Digest	ug/g	98.40	4.10e-04	<1.49e+02	<1.49e2	n/a	n/a	97.40	149.0	n/a
S95T002168		A	Nickel -ICP-Acid Digest	ug/g	96.60	-8.89e-03	760.0	809.0	784.5	6.25	116.1	29.90	n/a
S95T002168		A	Phosphorus -ICP-Acid Digest	ug/g	97.80	3.81e-02	2.60e+03	1.10e+04	6.80e+03	124	1.80e+03	299.0	n/a
S95T002168		A	Lead -ICP-Acid Digest	ug/g	94.60	5.72e-03	<1.49e+02	<1.49e2	n/a	n/a	95.90	149.0	n/a
S95T002168		A	Sulfur -ICP-Acid Digest	ug/g	94.40	5.37e-02	4.42e+03	3.89e+03	4.16e+03	12.8	111.1	149.0	n/a
S95T002168		A	Antimony -ICP-Acid Digest	ug/g	90.20	-1.12e-03	<8.96e+01	<8.96e1	n/a	n/a	93.00	89.60	n/a
S95T002168		A	Selenium -ICP-Acid Digest	ug/g	96.40	5.64e-02	<1.49e+02	<1.49e2	n/a	n/a	107.0	149.0	n/a
S95T002168		A	Silicon -ICP-Acid Digest	ug/g	266.0	1.05e-01	201.0	302.0	251.5	40.2	356.5	74.70	n/a
S95T002168		A	Samarium -ICP-Acid Digest	ug/g	98.60	-6.16e-03	<1.49e+02	<1.49e2	n/a	n/a	98.10	149.0	n/a
S95T002168		A	Strontium -ICP-Acid Digest	ug/g	96.80	1.10e-04	41.70	33.80	37.75	20.9	95.30	14.90	n/a
S95T002168		A	Titanium-ICP-Acid Digest	ug/g	95.00	2.61e-03	<1.49e+01	<1.49e1	n/a	n/a	95.20	14.90	n/a
S95T002168		A	Thallium -ICP-Acid Digest	ug/g	94.20	-3.57e-03	<2.99e+02	<2.99e2	n/a	n/a	92.20	299.0	n/a
S95T002168		A	Uranium -ICP-Acid Digest	ug/g	98.70	-9.77e-03	<7.47e+02	<7.47e2	n/a	n/a	108.5	747.0	n/a
S95T002168		A	Vanadium -ICP-Acid Digest	ug/g	96.00	-1.60e-04	<7.47e+01	<7.47e1	n/a	n/a	98.80	74.70	n/a
S95T002168		A	Zinc -ICP-Acid Digest	ug/g	93.60	1.00e-02	20.80	17.90	19.35	15.0	98.60	14.90	n/a
S95T002168		A	Zirconium -ICP-Acid Digest	ug/g	96.80	5.80e-04	<1.49e+01	<1.49e1	n/a	n/a	97.40	14.90	n/a

WHC-SD-WM-DP-145, REV. 1

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002349			Undecane (C11)	ug/g	n/a	n/a	J	9.670	6.240J	n/a	n/a	n/a	601.0	n/a
S95T002349			Tridecane (C13)	ug/g	n/a	n/a	J	42.300	25.500J	n/a	n/a	n/a	601.0	n/a
S95T002349			Tetradecane (C14)	ug/g	n/a	n/a	J	38.700	27.000J	n/a	n/a	n/a	601.0	n/a
S95T002349			Tri-n-butylphosphate	ug/g	n/a	n/a	U	601.00	370.00U	n/a	n/a	93.80	601.0	n/a
S95T002349			Pentadecane (C15)	ug/g	n/a	n/a	J	17.500	10.200J	n/a	n/a	n/a	601.0	n/a
S95T002349			Nonane (C9)	ug/g	n/a	n/a	U	601.00	370.00U	n/a	n/a	95.00	601.0	n/a
S95T002349			Dodecane (C12)	ug/g	n/a	n/a	J	25.000	18.300J	n/a	n/a	n/a	601.0	n/a
S95T002349			Decane (C10)	ug/g	n/a	n/a	U	601.00	370.00U	n/a	n/a	n/a	601.0	n/a
S95T002564		W	Bromide by Ion Chromatograph	ug/g	97.10	<1.26e-01		< 3.37e03	<3.61e03	n/a	n/a	97.60	3.37e+03	n/a
S95T002564		W	Chloride by IC - Dionex 4000i	ug/g	99.24	6.00e-02		1.84e+03	2.06e+03	1.95e+03	11.0	98.30	455.0	n/a
S95T002564		W	Fluoride by IC - Dionex 4000i	ug/g	96.10	<1.30e-02		7.66e+03	8.65e+03	8.16e+03	12.2	97.40	348.0	n/a
S95T002564		W	Nitrite by IC - Dionex 4000i	ug/g	96.10	<1.07e-01		2.27e+04	2.64e+04	2.46e+04	14.9	92.00	2.86e+03	n/a
S95T002564		W	Nitrate by IC - Dionex 4000i	ug/g	96.11	3.56e-01		2.02e+05	2.40e+05	2.21e+05	17.0	102.5	3.75e+03	n/a
S95T002564		W	Oxalate by IC - Dionex 4000i	ug/g	102.2	<1.05e-01		1.26e+04	1.26e+04	1.26e+04	0.20	100.1	2.81e+03	n/a
S95T002564		W	Phosphate by IC - Dionex 4000i	ug/g	93.55	<2.96e-01		3.11e+04	3.33e+04	3.22e+04	6.70	94.20	7.92e+03	n/a
S95T002564		W	Sulfate by IC - Dionex 4000i	ug/g	96.24	4.21e-01		2.57e+04	2.93e+04	2.75e+04	13.0	94.10	3.64e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 4(C)

TABLE 2

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001973			TOC by Persulfate/Coulometry	ug/g	96.00	5.600	2.30e+03	2.81e+03	2.56e+03	20.0	104.0	80.00	n/a
S95T001973			% Water by TGA using Mettler	%	100.7	n/a	41.10	41.13	41.12	0.07	n/a	n/a	n/a
S95T001973			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	180.2	194.5	187.3	7.63	n/a	n/a	n/a
S95T001973			DSC Exotherm using Mettler	Joules/g	105.1	n/a	106.1	114.5	110.3	7.62	n/a	n/a	n/a
S95T001973			Cyanide by Microdist. & Spec.	ug/g	102.1	1.08e-01	79.80	75.40	77.60	5.67	88.20	17.40	n/a
S95T002009		F	Alpha of Digested Solid	uCi/g	108.2	<1.91e-03	<4.66E-03	<3.50E-3	n/a	n/a	100.0	7.55e-03	5.00E+02
S95T002169		A	Silver -ICP-Acid Digest	ug/g	94.10	-3.80e-04	<1.96e+01	<1.96e1	n/a	n/a	n/a	19.60	n/a
S95T002169		A	Aluminium -ICP-Acid Digest	ug/g	102.6	1.31e-02	2.52e+04	2.58e+04	2.55e+04	2.35	n/a	97.80	n/a
S95T002169		A	Arsenic -ICP-Acid Digest	ug/g	96.00	-1.40e-02	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Boron -ICP-Acid Digest	ug/g	113.6	2.64e-02	<9.79e+01	<9.79e1	n/a	n/a	n/a	97.80	n/a
S95T002169		A	Barium -ICP-Acid Digest	ug/g	97.00	6.30e-04	<9.79e+01	<9.79e1	n/a	n/a	n/a	97.80	n/a
S95T002169		A	Beryllium -ICP-Acid Digest	ug/g	103.8	2.70e-04	<9.78e+00	<9.78e0	n/a	n/a	n/a	9.790	n/a
S95T002169		A	Bismuth -ICP-Acid Digest	ug/g	93.20	8.59e-03	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Calcium -ICP-Acid Digest	ug/g	97.80	1.14e-01	384.0	378.0	381.0	1.57	n/a	196.0	n/a
S95T002169		A	Cadmium -ICP-Acid Digest	ug/g	94.60	-6.30e-04	<9.78e+00	<9.78e0	n/a	n/a	n/a	9.790	n/a
S95T002169		A	Cerium -ICP-Acid Digest	ug/g	99.00	-6.86e-03	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Cobalt -ICP-Acid Digest	ug/g	97.40	-6.80e-04	<3.91e+01	<3.91e1	n/a	n/a	n/a	39.10	n/a
S95T002169		A	Chromium -ICP-Acid Digest	ug/g	97.00	1.20e-03	216.0	222.0	219.0	2.74	n/a	19.60	n/a
S95T002169		A	Copper -ICP-Acid Digest	ug/g	96.40	1.39e-03	<1.96e+01	<1.96e1	n/a	n/a	n/a	19.60	n/a
S95T002169		A	Iron -ICP-Acid Digest	ug/g	96.20	1.40e-02	691.0	754.0	722.5	8.72	n/a	97.80	n/a
S95T002169		A	Potassium -ICP-Acid Digest	ug/g	99.20	1.02e-01	1.80e+03	2.01e+03	1.90e+03	11.0	n/a	978.0	n/a
S95T002169		A	Lanthanum -ICP-Acid Digest	ug/g	98.40	-9.00e-04	<9.79e+01	<9.79e1	n/a	n/a	n/a	97.80	n/a
S95T002169		A	Lithium -ICP-Acid Digest	ug/g	97.80	-6.80e-04	<1.96e+01	<1.96e1	n/a	n/a	n/a	19.60	n/a
S95T002169		A	Magnesium -ICP-Acid Digest	ug/g	95.00	1.76e-02	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Manganese -ICP-Acid Digest	ug/g	95.00	6.70e-04	<1.96e+01	<1.96e1	n/a	n/a	n/a	19.60	n/a
S95T002169		A	Molybdenum -ICP-Acid Digest	ug/g	97.40	4.51e-03	<9.79e+01	<9.79e1	n/a	n/a	n/a	97.80	n/a
S95T002169		A	Sodium -ICP-Acid Digest	ug/g	119.4	3.06e-01	1.94e+05	1.85e+05	1.90e+05	4.75	n/a	196.0	n/a
S95T002169		A	Neodymium -ICP-Acid Digest	ug/g	98.40	4.10e-04	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Nickel -ICP-Acid Digest	ug/g	96.60	-8.89e-03	1.35e+03	1.36e+03	1.36e+03	0.74	n/a	39.10	n/a
S95T002169		A	Phosphorus -ICP-Acid Digest	ug/g	97.80	3.81e-02	6.32e+03	4.03e+03	5.18e+03	44.3	n/a	391.0	n/a
S95T002169		A	Lead -ICP-Acid Digest	ug/g	94.60	5.72e-03	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Sulfur -ICP-Acid Digest	ug/g	94.40	5.37e-02	1.65e+04	1.61e+04	1.63e+04	2.45	n/a	196.0	n/a
S95T002169		A	Antimony -ICP-Acid Digest	ug/g	90.20	-1.12e-03	<1.17e+02	<1.17e2	n/a	n/a	n/a	117.0	n/a
S95T002169		A	Selenium -ICP-Acid Digest	ug/g	96.40	5.64e-02	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Silicon -ICP-Acid Digest	ug/g	266.0	1.05e-01	411.0	420.0	415.5	2.17	n/a	97.80	n/a
S95T002169		A	Samarium -ICP-Acid Digest	ug/g	98.60	-6.16e-03	<1.96e+02	<1.96e2	n/a	n/a	n/a	196.0	n/a
S95T002169		A	Strontium -ICP-Acid Digest	ug/g	96.80	1.10e-04	130.0	134.0	132.0	3.03	n/a	19.60	n/a
S95T002169		A	Titanium-ICP-Acid Digest	ug/g	95.00	2.61e-03	<1.96e+01	<1.96e1	n/a	n/a	n/a	19.60	n/a
S95T002169		A	Thallium -ICP-Acid Digest	ug/g	94.20	-3.57e-03	<3.91e+02	<3.91e2	n/a	n/a	n/a	391.0	n/a
S95T002169		A	Uranium -ICP-Acid Digest	ug/g	98.70	-9.77e-03	<9.78e+02	<9.78e2	n/a	n/a	n/a	978.0	n/a
S95T002169		A	Vanadium -ICP-Acid Digest	ug/g	96.00	-1.60e-04	<9.79e+01	<9.79e1	n/a	n/a	n/a	97.80	n/a
S95T002169		A	Zinc -ICP-Acid Digest	ug/g	93.60	1.00e-02	30.90	26.30	28.60	16.1	n/a	19.60	n/a
S95T002169		A	Zirconium -ICP-Acid Digest	ug/g	96.80	5.80e-04	<1.96e+01	<1.96e1	n/a	n/a	n/a	19.60	n/a

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002350			Undecane (C11)	ug/g	n/a	n/a	U	475.00	469.00U	n/a	n/a	n/a	475.0	n/a
S95T002350			Tridecane (C13)	ug/g	n/a	n/a	J	2.630	4.440J	n/a	n/a	n/a	475.0	n/a
S95T002350			Tetradecane (C14)	ug/g	n/a	n/a	U	475.00	469.00U	n/a	n/a	n/a	475.0	n/a
S95T002350			Tri-n-butylphosphate	ug/g	n/a	n/a	U	475.00	469.00U	n/a	n/a	93.74	475.0	n/a
S95T002350			Pentadecane (C15)	ug/g	n/a	n/a	U	475.00	469.00U	n/a	n/a	n/a	475.0	n/a
S95T002350			Nonane (C9)	ug/g	n/a	n/a	U	475.00	469.00U	n/a	n/a	93.44	475.0	n/a
S95T002350			Dodecane (C12)	ug/g	n/a	n/a	U	475.00	469.00U	n/a	n/a	n/a	475.0	n/a
S95T002350			Decane (C10)	ug/g	n/a	n/a	U	475.00	469.00U	n/a	n/a	n/a	475.0	n/a
S95T002565		W	Bromide by Ion Chromatograph	ug/g	97.10	<1.26e-01		< 2.48e03	<2.38e03	n/a	n/a	n/a	2.48e+03	n/a
S95T002565		W	Chloride by IC - Dionex 4000i	ug/g	99.24	6.00e-02		2.35e+03	2.09e+03	2.22e+03	12.1	n/a	334.0	n/a
S95T002565		W	Fluoride by IC - Dionex 4000i	ug/g	96.10	<1.30e-02		1.26e+04	1.27e+04	1.26e+04	1.10	n/a	256.0	n/a
S95T002565		W	Nitrite by IC - Dionex 4000i	ug/g	96.10	<1.07e-01		3.10e+04	3.07e+04	3.08e+04	1.10	n/a	2.10e+03	n/a
S95T002565		W	Nitrate by IC - Dionex 4000i	ug/g	96.11	3.56e-01		1.52e+05	1.38e+05	1.45e+05	9.70	n/a	2.75e+03	n/a
S95T002565		W	Oxalate by IC - Dionex 4000i	ug/g	102.2	<1.05e-01		7.24e+03	6.96e+03	7.10e+03	4.00	n/a	2.06e+03	n/a
S95T002565		W	Phosphate by IC - Dionex 4000i	ug/g	93.55	<2.96e-01		2.33e+04	2.29e+04	2.31e+04	1.70	n/a	5.82e+03	n/a
S95T002565		W	Sulfate by IC - Dionex 4000i	ug/g	96.24	4.21e-01		4.86e+04	4.85e+04	4.86e+04	0.20	n/a	2.67e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 4(D)

TABLE 2

SEGMENT PORTION: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001974			TOC by Persulfate/Coulometry	ug/g	96.00	5.600	2.67e+03	2.21e+03	2.44e+03	18.9	n/a	80.00	n/a
S95T001974			% Water by TGA on Perkin Elmer	%	101.1	n/a	9.770	8.800	9.285	10.4	n/a	n/a	n/a
S95T001974			DSC Exotherm on Perkin Elmer	Joules/g	99.86	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001974			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001974			Cyanide by Microdist. & Spec.	ug/g	99.46	4.62e-02	39.80	38.87	39.33	2.36	99.50	8.660	n/a
S95T002010		F	Alpha of Digested Solid	uCi/g	101.5	5.50e-04	7.44e-04	<9.72E-4	n/a	n/a	91.96	9.16e-04	1.10E+02
S95T002170		A	Silver -ICP-Acid Digest	ug/g	94.10	-3.80e-04	<9.41e+00	<9.41e0	n/a	n/a	n/a	9.410	n/a
S95T002170		A	Aluminium -ICP-Acid Digest	ug/g	102.6	1.31e-02	2.74e+04	2.63e+04	2.68e+04	4.10	n/a	47.00	n/a
S95T002170		A	Arsenic -ICP-Acid Digest	ug/g	96.00	-1.40e-02	<9.41e+01	<9.41e1	n/a	n/a	n/a	94.10	n/a
S95T002170		A	Boron -ICP-Acid Digest	ug/g	113.6	2.64e-02	<4.70e+01	<4.70e1	n/a	n/a	n/a	47.00	n/a
S95T002170		A	Barium -ICP-Acid Digest	ug/g	97.00	6.30e-04	<4.70e+01	<4.70e1	n/a	n/a	n/a	47.00	n/a
S95T002170		A	Beryllium -ICP-Acid Digest	ug/g	103.8	2.70e-04	<4.70e+00	<4.70e0	n/a	n/a	n/a	4.710	n/a
S95T002170		A	Bismuth -ICP-Acid Digest	ug/g	93.20	-8.59e-03	<9.41e+01	<9.41e1	n/a	n/a	n/a	94.10	n/a
S95T002170		A	Calcium -ICP-Acid Digest	ug/g	97.80	1.14e-01	99.60	97.10	98.35	2.54	n/a	94.10	n/a
S95T002170		A	Cadmium -ICP-Acid Digest	ug/g	96.60	-6.30e-04	<4.70e+00	<4.70e0	n/a	n/a	n/a	4.710	n/a
S95T002170		A	Cerium -ICP-Acid Digest	ug/g	99.00	-8.86e-03	<9.41e+01	<9.41e1	n/a	n/a	n/a	94.10	n/a
S95T002170		A	Cobalt -ICP-Acid Digest	ug/g	97.40	-6.80e-04	<1.88e+01	<1.88e1	n/a	n/a	n/a	18.80	n/a
S95T002170		A	Chromium -ICP-Acid Digest	ug/g	97.00	1.20e-03	201.0	202.0	201.5	0.50	n/a	9.410	n/a
S95T002170		A	Copper -ICP-Acid Digest	ug/g	96.40	1.39e-03	<9.41e+00	<9.41e0	n/a	n/a	n/a	9.410	n/a
S95T002170		A	Iron -ICP-Acid Digest	ug/g	96.20	1.40e-02	311.0	305.0	308.0	1.95	n/a	47.00	n/a
S95T002170		A	Potassium -ICP-Acid Digest	ug/g	99.20	1.02e-01	2.12e+03	2.04e+03	2.08e+03	3.85	n/a	470.0	n/a
S95T002170		A	Lanthanum -ICP-Acid Digest	ug/g	98.40	-9.00e-04	<4.70e+01	<4.70e1	n/a	n/a	n/a	47.00	n/a
S95T002170		A	Lithium -ICP-Acid Digest	ug/g	97.80	-6.80e-04	<9.41e+00	<9.41e0	n/a	n/a	n/a	9.410	n/a
S95T002170		A	Magnesium -ICP-Acid Digest	ug/g	95.00	1.76e-02	<9.41e+01	<9.41e1	n/a	n/a	n/a	94.10	n/a
S95T002170		A	Manganese -ICP-Acid Digest	ug/g	95.00	6.70e-04	<9.41e+00	<9.41e0	n/a	n/a	n/a	9.410	n/a
S95T002170		A	Molybdenum -ICP-Acid Digest	ug/g	97.40	4.51e-03	<4.70e+01	<4.70e1	n/a	n/a	n/a	47.00	n/a
S95T002170		A	Sodium -ICP-Acid Digest	ug/g	119.4	3.06e-01	1.79e+05	1.81e+05	1.80e+05	1.11	n/a	94.10	n/a
S95T002170		A	Neodymium -ICP-Acid Digest	ug/g	98.40	4.10e-04	<9.41e+01	<9.41e1	n/a	n/a	n/a	94.10	n/a
S95T002170		A	Nickel -ICP-Acid Digest	ug/g	96.60	-8.89e-03	862.0	921.0	891.5	6.62	n/a	18.80	n/a
S95T002170		A	Phosphorus -ICP-Acid Digest	ug/g	97.80	3.81e-02	1.29e+03	1.32e+03	1.30e+03	2.30	n/a	188.0	n/a
S95T002170		A	Lead -ICP-Acid Digest	ug/g	94.60	5.72e-03	127.0	128.0	127.5	0.78	n/a	94.10	n/a
S95T002170		A	Sulfur -ICP-Acid Digest	ug/g	94.40	5.37e-02	2.42e+04	2.64e+04	2.53e+04	8.70	n/a	94.10	n/a
S95T002170		A	Antimony -ICP-Acid Digest	ug/g	90.20	-1.12e-03	<5.65e+01	<5.65e1	n/a	n/a	n/a	56.50	n/a
S95T002170		A	Selenium -ICP-Acid Digest	ug/g	96.40	5.64e-02	<9.41e+01	<9.41e1	n/a	n/a	n/a	94.10	n/a
S95T002170		A	Silicon -ICP-Acid Digest	ug/g	266.0	1.05e-01	372.0	476.0	424.0	24.5	n/a	47.00	n/a
S95T002170		A	Samarium -ICP-Acid Digest	ug/g	98.60	-6.16e-03	<9.41e+01	<9.41e1	n/a	n/a	n/a	94.10	n/a
S95T002170		A	Strontium -ICP-Acid Digest	ug/g	96.80	1.10e-04	12.40	13.20	12.80	6.25	n/a	9.410	n/a
S95T002170		A	Titanium-ICP-Acid Digest	ug/g	95.00	2.61e-03	<9.41e+00	<9.41e0	n/a	n/a	n/a	9.410	n/a
S95T002170		A	Thallium -ICP-Acid Digest	ug/g	94.20	-3.57e-03	<1.88e+02	<1.88e2	n/a	n/a	n/a	188.0	n/a
S95T002170		A	Uranium -ICP-Acid Digest	ug/g	98.70	-9.77e-03	<4.70e+02	<4.70e2	n/a	n/a	n/a	470.0	n/a
S95T002170		A	Vanadium -ICP-Acid Digest	ug/g	96.00	-1.60e-04	<4.70e+01	<4.70e1	n/a	n/a	n/a	47.00	n/a
S95T002170		A	Zinc -ICP-Acid Digest	ug/g	93.60	1.00e-02	28.30	24.80	26.55	13.2	n/a	9.410	n/a
S95T002170		A	Zirconium -ICP-Acid Digest	ug/g	96.80	5.80e-04	<9.41e+00	<9.41e0	n/a	n/a	n/a	9.410	n/a

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002351			Undecane (C11)	ug/g	n/a	n/a	J	4.990	3.340J	n/a	n/a	n/a	192.0	n/a
S95T002351			Tridecane (C13)	ug/g	n/a	n/a	J	13.500	9.460J	n/a	n/a	n/a	192.0	n/a
S95T002351			Tetradecane (C14)	ug/g	n/a	n/a	J	12.400	10.600J	n/a	n/a	n/a	192.0	n/a
S95T002351			Tri-n-butylphosphate	ug/g	n/a	n/a	U	192.00	221.00U	n/a	n/a	103.4	192.0	n/a
S95T002351			Pentadecane (C15)	ug/g	n/a	n/a	J	8.030	5.600J	n/a	n/a	n/a	192.0	n/a
S95T002351			Nonane (C9)	ug/g	n/a	n/a	U	192.00	221.00U	n/a	n/a	99.22	192.0	n/a
S95T002351			Dodecane (C12)	ug/g	n/a	n/a	J	11.300	9.490J	n/a	n/a	n/a	192.0	n/a
S95T002351			Decane (C10)	ug/g	n/a	n/a	U	192.00	221.00U	n/a	n/a	n/a	192.0	n/a
S95T002566		W	Bromide by Ion Chromatograph	ug/g	98.23	<1.26e-01		< 3.42e02	<3.42e02	n/a	n/a	93.20	342.0	n/a
S95T002566		W	Chloride by IC - Dionex 4000i	ug/g	101.0	<1.70e-02		2.01e+03	2.09e+03	2.05e+03	3.90	98.10	46.10	n/a
S95T002566		W	Fluoride by IC - Dionex 4000i	ug/g	101.9	<1.30e-02		1.93e+04	1.90e+04	1.92e+04	1.57	104.2	170.0	n/a
S95T002566		W	Nitrite by IC - Dionex 4000i	ug/g	99.49	<1.07e-01		3.88e+04	4.00e+04	3.94e+04	3.05	104.4	290.0	n/a
S95T002566		W	Nitrate by IC - Dionex 4000i	ug/g	97.36	<1.40e-01		1.30e+05	1.24e+05	1.27e+05	4.72	98.10	1.83e+03	n/a
S95T002566		W	Oxalate by IC - Dionex 4000i	ug/g	108.7	<1.05e-01		4.09e+03	3.53e+03	3.81e+03	14.7	102.7	285.0	n/a
S95T002566		W	Phosphate by IC - Dionex 4000i	ug/g	96.91	4.96e-01		6.28e+03	3.54e+03	4.91e+03	55.8	98.60	803.0	n/a
S95T002566		W	Sulfate by IC - Dionex 4000i	ug/g	96.15	<1.36e-01		8.64e+04	8.80e+04	8.72e+04	1.83	95.50	1.77e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 5(A)

TABLE 2

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001975			% Water by TGA on Perkin Elmer	%	101.1	n/a	9.370	8.980	9.175	4.25	n/a	n/a	n/a
S95T001975			DSC Exotherm on Perkin Elmer	Joules/g	99.86	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001975			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001975			Cyanide by Microdist. & Spec.	ug/g	99.46	4.62e-02	36.50	39.40	37.95	7.64	101.0	7.950	n/a
S95T002011		F	Alpha of Digested Solid	uCi/g	101.5	5.50e-04	1.77e-02	1.08e-02	1.43e-02	48.4	69.20	9.11e-04	1.22E+01
S95T002171		A	Silver -ICP-Acid Digest	ug/g	93.36	4.00e-03	< 12.4146	<12.3047	n/a	n/a	99.66	12.40	n/a
S95T002171		A	Aluminium -ICP-Acid Digest	ug/g	104.7	1.49e-02	2.36e+04	2.26e+04	2.31e+04	4.27	n/a	62.10	n/a
S95T002171		A	Arsenic -ICP-Acid Digest	ug/g	97.04	4.90e-03	< 62.0732	<61.5233	n/a	n/a	98.69	62.10	n/a
S95T002171		A	Boron -ICP-Acid Digest	ug/g	124.4	1.01e-01	< 62.0732	<61.5233	n/a	n/a	109.7	62.10	n/a
S95T002171		A	Barium -ICP-Acid Digest	ug/g	95.89	1.60e-03	< 62.0732	<61.5233	n/a	n/a	99.12	62.10	n/a
S95T002171		A	Beryllium -ICP-Acid Digest	ug/g	104.5	0.00e+00	< 6.2073	<6.1523	n/a	n/a	99.65	6.210	n/a
S95T002171		A	Bismuth -ICP-Acid Digest	ug/g	93.18	9.00e-04	<124.1465	<123.046	n/a	n/a	105.1	124.0	n/a
S95T002171		A	Calcium -ICP-Acid Digest	ug/g	101.8	8.33e-02	450.5	415.0	432.8	8.22	110.1	124.0	n/a
S95T002171		A	Cadmium -ICP-Acid Digest	ug/g	96.12	3.80e-03	< 12.4146	<12.3047	n/a	n/a	97.03	12.40	n/a
S95T002171		A	Cerium -ICP-Acid Digest	ug/g	98.00	5.24e-02	<124.1465	<123.046	n/a	n/a	103.5	124.0	n/a
S95T002171		A	Cobalt -ICP-Acid Digest	ug/g	97.65	6.70e-03	29.44	31.53	30.48	6.87	97.21	24.80	n/a
S95T002171		A	Chromium -ICP-Acid Digest	ug/g	98.30	6.10e-03	403.0	383.5	393.3	4.97	98.77	12.40	n/a
S95T002171		A	Copper -ICP-Acid Digest	ug/g	94.84	5.60e-03	< 12.4146	<12.3047	n/a	n/a	92.16	12.40	n/a
S95T002171		A	Iron -ICP-Acid Digest	ug/g	99.76	2.38e-02	2.08e+03	2.00e+03	2.04e+03	4.11	63.89	62.10	n/a
S95T002171		A	Potassium -ICP-Acid Digest	ug/g	96.14	-3.37e-02	1.53e+03	1.39e+03	1.46e+03	9.60	112.8	372.0	n/a
S95T002171		A	Lanthanum -ICP-Acid Digest	ug/g	98.49	4.00e-04	< 62.0732	<61.5233	n/a	n/a	99.92	62.10	n/a
S95T002171		A	Lithium -ICP-Acid Digest	ug/g	94.44	1.80e-03	< 12.4146	<12.3047	n/a	n/a	94.04	12.40	n/a
S95T002171		A	Magnesium -ICP-Acid Digest	ug/g	96.54	1.44e-02	<124.1465	<123.046	n/a	n/a	103.8	124.0	n/a
S95T002171		A	Manganese -ICP-Acid Digest	ug/g	98.69	1.00e-03	15.11	14.20	14.65	6.16	98.04	12.40	n/a
S95T002171		A	Molybdenum -ICP-Acid Digest	ug/g	96.59	2.30e-03	< 62.0732	<61.5233	n/a	n/a	96.40	62.10	n/a
S95T002171		A	Sodium -ICP-Acid Digest	ug/g	114.3	3.37e-01	1.87e+05	1.82e+05	1.84e+05	2.76	n/a	124.0	n/a
S95T002171		A	Neodymium -ICP-Acid Digest	ug/g	101.5	1.72e-02	<124.1465	<123.046	n/a	n/a	104.7	124.0	n/a
S95T002171		A	Nickel -ICP-Acid Digest	ug/g	98.12	5.00e-04	1.22e+03	1.17e+03	1.20e+03	4.52	115.5	24.80	n/a
S95T002171		A	Phosphorus -ICP-Acid Digest	ug/g	96.03	5.46e-02	5.43e+03	5.14e+03	5.29e+03	5.43	n/a	248.0	n/a
S95T002171		A	Lead -ICP-Acid Digest	ug/g	95.98	1.81e-02	191.8	210.2	201.0	9.14	99.79	124.0	n/a
S95T002171		A	Sulfur -ICP-Acid Digest	ug/g	92.49	4.27e-02	2.92e+04	2.77e+04	2.84e+04	5.14	n/a	62.10	n/a
S95T002171		A	Antimony -ICP-Acid Digest	ug/g	90.46	5.26e-02	<248.2930	<246.093	n/a	n/a	105.5	248.0	n/a
S95T002171		A	Selenium -ICP-Acid Digest	ug/g	99.64	1.32e-02	<124.1465	<123.046	n/a	n/a	103.9	124.0	n/a
S95T002171		A	Silicon -ICP-Acid Digest	ug/g	351.3	6.55e-02	2.01e+03	1.95e+03	1.98e+03	3.29	n/a	62.10	n/a
S95T002171		A	Samarium -ICP-Acid Digest	ug/g	94.89	-2.12e-02	<124.1465	<123.046	n/a	n/a	96.23	124.0	n/a
S95T002171		A	Strontium -ICP-Acid Digest	ug/g	96.56	6.00e-04	634.4	611.0	622.7	3.77	108.1	12.40	n/a
S95T002171		A	Titanium-ICP-Acid Digest	ug/g	92.87	0.00e+00	< 12.4146	<12.3047	n/a	n/a	94.58	12.40	n/a
S95T002171		A	Thallium -ICP-Acid Digest	ug/g	91.43	8.00e-03	<248.2930	<246.093	n/a	n/a	101.8	248.0	n/a
S95T002171		A	Uranium -ICP-Acid Digest	ug/g	94.98	-9.72e-02	1.60e+03	1.54e+03	1.57e+03	3.52	107.8	497.0	n/a
S95T002171		A	Vanadium -ICP-Acid Digest	ug/g	96.19	1.80e-03	< 62.0732	<61.5233	n/a	n/a	95.38	62.10	n/a
S95T002171		A	Zinc -ICP-Acid Digest	ug/g	95.37	9.40e-03	26.43	23.91	25.17	10.0	96.35	12.40	n/a
S95T002171		A	Zirconium -ICP-Acid Digest	ug/g	95.62	-4.00e-04	< 12.4146	<12.3047	n/a	n/a	97.06	12.40	n/a
S95T002352			Undecane (C11)	ug/g	n/a	n/a	J 55.900	50.300J	n/a	n/a	n/a	387.0	n/a

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002352			Tridecane (C13)	ug/g	n/a	n/a	J 161.000	1.42e02J	n/a	n/a	n/a	387.0	n/a
S95T002352			Tetradecane (C14)	ug/g	n/a	n/a	J 146.000	1.4e+02J	n/a	n/a	n/a	387.0	n/a
S95T002352			Tri-n-butylphosphate	ug/g	n/a	n/a	J 5.970	459.00U	n/a	n/a	103.8	387.0	n/a
S95T002352			Pentadecane (C15)	ug/g	n/a	n/a	J 106.000	1.05e02J	n/a	n/a	n/a	387.0	n/a
S95T002352			Nonane (C9)	ug/g	n/a	n/a	J 6.540	5.560J	n/a	n/a	100.2	387.0	n/a
S95T002352			Dodecane (C12)	ug/g	n/a	n/a	J 129.000	1.25e02J	n/a	n/a	n/a	387.0	n/a
S95T002352			Decane (C10)	ug/g	n/a	n/a	J 13.900	13.600J	n/a	n/a	n/a	387.0	n/a
S95T002568		W	Bromide by Ion Chromatograph	ug/g	98.23	<1.26e-01	< 4.16e02	<4.16e02	n/a	n/a	n/a	416.0	n/a
S95T002568		W	Chloride by IC - Dionex 4000i	ug/g	101.0	<1.70e-02	2.39e+03	1.76e+03	2.08e+03	30.4	n/a	56.10	n/a
S95T002568		W	Fluoride by IC - Dionex 4000i	ug/g	101.9	<1.30e-02	2.64e+04	2.34e+04	2.49e+04	12.0	n/a	206.0	n/a
S95T002568		W	Nitrite by IC - Dionex 4000i	ug/g	99.49	<1.07e-01	3.34e+04	3.60e+04	3.47e+04	7.49	n/a	353.0	n/a
S95T002568		W	Nitrate by IC - Dionex 4000i	ug/g	97.36	<1.40e-01	1.19e+05	1.26e+05	1.22e+05	5.71	n/a	2.22e+03	n/a
S95T002568		W	Oxalate by IC - Dionex 4000i	ug/g	108.7	<1.05e-01	2.81e+03	2.65e+03	2.73e+03	5.86	n/a	346.0	n/a
S95T002568		W	Phosphate by IC - Dionex 4000i	ug/g	96.91	4.96e-01	1.03e+04	1.16e+04	1.10e+04	11.9	n/a	976.0	n/a
S95T002568		W	Sulfate by IC - Dionex 4000i	ug/g	96.15	<1.36e-01	1.16e+05	1.03e+05	1.10e+05	11.9	n/a	2.16e+03	n/a
S95T003173			TOC by Persulfate/Coulometry	ug/g	96.83	8.800	4.06e+03	4.21e+03	4.14e+03	3.63	n/a	80.00	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 5(B)

TABLE 2

SEGMENT PORTION: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001976			TOC by Persulfate/Coulometry	ug/g	90.67	25.80	1.72e+04	1.34e+04	1.53e+04	24.8	86.80	40.00	n/a
S95T001976			% Water by TGA using Mettler	%	101.1	n/a	37.69	35.62	36.66	5.65	n/a	n/a	n/a
S95T001976			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	593.5	552.6	573.0	7.14	n/a	n/a	n/a
S95T001976			DSC Exotherm using Mettler	Joules/g	93.50	n/a	375.9	350.0	362.9	7.14	n/a	n/a	n/a
S95T001976			Cyanide by Microdist. & Spec.	ug/g	107.3	1.29e-01	99.90	94.70	97.30	5.34	116.9	5.420	n/a
S95T002012		F	Alpha of Digested Solid	uCi/g	95.95	<7.63e-02	1.79e-01	1.81e-01	1.80e-01	1.11	100.0	1.03e-01	5.18E+01
S95T002172		A	Silver -ICP-Acid Digest	ug/g	93.36	4.00e-03	< 10.2669	<9.6339	n/a	n/a	n/a	10.30	n/a
S95T002172		A	Aluminium -ICP-Acid Digest	ug/g	104.7	1.49e-02	2.49e+04	2.46e+04	2.47e+04	1.01	n/a	51.30	n/a
S95T002172		A	Arsenic -ICP-Acid Digest	ug/g	97.04	4.90e-03	< 51.3347	<48.1696	n/a	n/a	n/a	51.30	n/a
S95T002172		A	Boron -ICP-Acid Digest	ug/g	124.4	1.01e-01	163.3	163.4	163.3	0.11	n/a	51.30	n/a
S95T002172		A	Barium -ICP-Acid Digest	ug/g	95.89	1.60e-03	406.2	404.9	405.5	0.33	n/a	51.30	n/a
S95T002172		A	Beryllium -ICP-Acid Digest	ug/g	104.5	0.00e+00	< 5.1335	<4.8170	n/a	n/a	n/a	5.130	n/a
S95T002172		A	Bismuth -ICP-Acid Digest	ug/g	93.18	9.00e-04	765.6	764.7	765.2	0.12	n/a	103.0	n/a
S95T002172		A	Calcium -ICP-Acid Digest	ug/g	101.8	8.33e-02	5.74e+03	5.81e+03	5.77e+03	1.16	n/a	103.0	n/a
S95T002172		A	Cadmium -ICP-Acid Digest	ug/g	96.12	3.80e-03	< 10.2669	<9.6339	n/a	n/a	n/a	10.30	n/a
S95T002172		A	Cerium -ICP-Acid Digest	ug/g	98.00	5.24e-02	445.5	446.3	445.9	0.19	n/a	103.0	n/a
S95T002172		A	Cobalt -ICP-Acid Digest	ug/g	97.65	6.70e-03	27.44	<19.2678	n/a	n/a	n/a	20.50	n/a
S95T002172		A	Chromium -ICP-Acid Digest	ug/g	98.30	6.10e-03	2.08e+03	2.06e+03	2.07e+03	1.10	n/a	10.30	n/a
S95T002172		A	Copper -ICP-Acid Digest	ug/g	94.84	5.60e-03	21.57	22.93	22.25	6.10	n/a	10.30	n/a
S95T002172		A	Iron -ICP-Acid Digest	ug/g	99.76	2.38e-02	1.78e+04	1.77e+04	1.77e+04	0.61	n/a	51.30	n/a
S95T002172		A	Potassium -ICP-Acid Digest	ug/g	96.14	-3.37e-02	1.55e+03	1.46e+03	1.51e+03	5.78	n/a	308.0	n/a
S95T002172		A	Lanthanum -ICP-Acid Digest	ug/g	98.49	4.00e-04	< 51.3347	<48.1696	n/a	n/a	n/a	51.30	n/a
S95T002172		A	Lithium -ICP-Acid Digest	ug/g	94.44	1.80e-03	< 10.2669	<9.6339	n/a	n/a	n/a	10.30	n/a
S95T002172		A	Magnesium -ICP-Acid Digest	ug/g	96.54	1.44e-02	1.07e+03	1.01e+03	1.04e+03	6.39	n/a	103.0	n/a
S95T002172		A	Manganese -ICP-Acid Digest	ug/g	98.69	1.00e-03	281.6	280.5	281.0	0.38	n/a	10.30	n/a
S95T002172		A	Molybdenum -ICP-Acid Digest	ug/g	96.59	2.30e-03	< 51.3347	<48.1696	n/a	n/a	n/a	51.30	n/a
S95T002172		A	Sodium -ICP-Acid Digest	ug/g	114.3	3.37e-01	1.32e+05	1.30e+05	1.31e+05	1.29	n/a	103.0	n/a
S95T002172		A	Neodymium -ICP-Acid Digest	ug/g	101.5	1.72e-02	<102.6694	<96.3391	n/a	n/a	n/a	103.0	n/a
S95T002172		A	Nickel -ICP-Acid Digest	ug/g	98.12	5.00e-04	1.22e+04	1.21e+04	1.22e+04	1.02	n/a	20.50	n/a
S95T002172		A	Phosphorus -ICP-Acid Digest	ug/g	96.03	5.46e-02	1.42e+04	1.37e+04	1.39e+04	2.98	n/a	205.0	n/a
S95T002172		A	Lead -ICP-Acid Digest	ug/g	95.98	1.81e-02	1.31e+03	1.32e+03	1.32e+03	0.69	n/a	103.0	n/a
S95T002172		A	Sulfur -ICP-Acid Digest	ug/g	92.49	4.27e-02	5.17e+03	5.06e+03	5.11e+03	2.11	n/a	51.30	n/a
S95T002172		A	Antimony -ICP-Acid Digest	ug/g	90.46	5.26e-02	<205.3388	210.7	n/a	n/a	n/a	205.0	n/a
S95T002172		A	Selenium -ICP-Acid Digest	ug/g	99.64	1.32e-02	<102.6694	<96.3391	n/a	n/a	n/a	103.0	n/a
S95T002172		A	Silicon -ICP-Acid Digest	ug/g	351.3	6.55e-02	3.46e+03	3.34e+03	3.40e+03	3.40	n/a	51.30	n/a
S95T002172		A	Samarium -ICP-Acid Digest	ug/g	94.89	-2.12e-02	<102.6694	<96.3391	n/a	n/a	n/a	103.0	n/a
S95T002172		A	Strontium -ICP-Acid Digest	ug/g	96.56	6.00e-04	2.56e+04	2.55e+04	2.56e+04	0.45	n/a	10.30	n/a
S95T002172		A	Titanium-ICP-Acid Digest	ug/g	92.87	0.00e+00	35.36	32.94	34.15	7.08	n/a	10.30	n/a
S95T002172		A	Thallium -ICP-Acid Digest	ug/g	91.43	8.00e-03	<205.3388	<192.678	n/a	n/a	n/a	205.0	n/a
S95T002172		A	Uranium -ICP-Acid Digest	ug/g	94.98	-9.72e-02	1.54e+04	1.54e+04	1.54e+04	0.09	n/a	411.0	n/a
S95T002172		A	Vanadium -ICP-Acid Digest	ug/g	96.19	1.80e-03	< 51.3347	<48.1696	n/a	n/a	n/a	51.30	n/a
S95T002172		A	Zinc -ICP-Acid Digest	ug/g	95.37	9.40e-03	250.8	247.2	249.0	1.44	n/a	10.30	n/a
S95T002172		A	Zirconium -ICP-Acid Digest	ug/g	95.62	-4.00e-04	< 10.2669	<9.6339	n/a	n/a	n/a	10.30	n/a

48

WHC-SD-WM-DP-145, REV. 1

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002353			Undecane (C11)	ug/g	n/a	0.00e+00	J 100.000	1.71e02J	n/a	n/a	n/a	314.0	n/a
S95T002353			Tridecane (C13)	ug/g	n/a	0.00e+00	J 270.000	452.0	n/a	n/a	n/a	314.0	n/a
S95T002353			Tetradecane (C14)	ug/g	n/a	0.00e+00	J 186.000	2.98e02J	n/a	n/a	n/a	314.0	n/a
S95T002353			Tri-n-butylphosphate	ug/g	n/a	0.00e+00	U 314.00	369.00U	n/a	n/a	85.47	314.0	n/a
S95T002353			Pentadecane (C15)	ug/g	n/a	0.00e+00	J 83.600	131.000J	n/a	n/a	n/a	314.0	n/a
S95T002353			Nonane (C9)	ug/g	n/a	0.00e+00	U 314.00	369.00U	n/a	n/a	82.07	314.0	n/a
S95T002353			Dodecane (C12)	ug/g	n/a	0.00e+00	J 241.000	405.0	n/a	n/a	n/a	314.0	n/a
S95T002353			Decane (C10)	ug/g	n/a	0.00e+00	J 25.500	42.800J	n/a	n/a	n/a	314.0	n/a
S95T002569		W	Bromide by Ion Chromatograph	ug/g	96.35	<1.26e-01	<6.687e+0	<7.82e3	n/a	n/a	99.13	6.69e+03	n/a
S95T002569		W	Chloride by IC - Dionex 4000i	ug/g	97.34	5.50e-02	2.57e+03	2.75e+03	2.66e+03	6.77	100.7	902.2	n/a
S95T002569		W	Fluoride by IC - Dionex 4000i	ug/g	94.58	<1.30e-02	5.54e+03	3.77e+03	4.65e+03	38.0	96.38	689.9	n/a
S95T002569		W	Nitrite by IC - Dionex 4000i	ug/g	92.61	<1.07e-01	4.67e+04	5.07e+04	4.87e+04	8.21	94.84	5.68e+03	n/a
S95T002569		W	Nitrate by IC - Dionex 4000i	ug/g	98.05	<1.40e-01	1.16e+05	1.15e+05	1.16e+05	0.87	93.34	7.43e+03	n/a
S95T002569		W	Oxalate by IC - Dionex 4000i	ug/g	98.69	1.010	2.47e+04	<6.52e3	n/a	n/a	98.86	5.57e+03	n/a
S95T002569		W	Phosphate by IC - Dionex 4000i	ug/g	89.93	1.110	<1.571e+0	<1.84e4	n/a	n/a	93.22	1.57e+04	n/a
S95T002569		W	Sulfate by IC - Dionex 4000i	ug/g	95.56	2.93e-01	3.42e+04	2.89e+04	3.16e+04	16.8	94.12	7.22e+03	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 5(C)

TABLE 2

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001977			TOC by Persulfate/Coulometry	ug/g	90.67	25.80	1.36e+04	1.32e+04	1.34e+04	2.99	n/a	40.00	n/a
S95T001977			% Water by TGA using Mettler	%	101.1	n/a	35.50	35.50	35.50	0.00	n/a	n/a	n/a
S95T001977			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	548.7	507.9	528.3	7.72	n/a	n/a	n/a
S95T001977			DSC Exotherm using Mettler	Joules/g	93.50	n/a	353.9	327.6	340.8	7.72	n/a	n/a	n/a
S95T001977			Cyanide by Microdist. & Spec.	ug/g	109.2	1.08e-01	125.0	117.0	121.0	6.61	81.50	3.010	n/a
S95T002013		F	Alpha of Digested Solid	uCi/g	95.95	<7.63e-02	2.66e-01	3.06e-01	2.86e-01	14.0	96.88	9.82e-02	3.55E+01
S95T002174		A	Silver -ICP-Acid Digest	ug/g	95.56	2.10e-03	< 23.7400	<25.9300	n/a	n/a	97.82	23.70	n/a
S95T002174		A	Aluminium -ICP-Acid Digest	ug/g	100.1	1.51e-02	2.42e+04	2.43e+04	2.43e+04	0.18	n/a	119.0	n/a
S95T002174		A	Arsenic -ICP-Acid Digest	ug/g	97.54	6.30e-03	<118.7000	<129.650	n/a	n/a	101.9	119.0	n/a
S95T002174		A	Boron -ICP-Acid Digest	ug/g	114.7	2.72e-02	<118.7000	<129.650	n/a	n/a	99.43	119.0	n/a
S95T002174		A	Barium -ICP-Acid Digest	ug/g	97.99	8.00e-04	599.5	598.1	598.8	0.23	97.09	119.0	n/a
S95T002174		A	Beryllium -ICP-Acid Digest	ug/g	105.4	1.00e-04	< 11.8700	<12.9650	n/a	n/a	99.68	11.90	n/a
S95T002174		A	Bismuth -ICP-Acid Digest	ug/g	95.57	7.20e-03	2.17e+03	1.80e+03	1.98e+03	18.6	77.17	237.0	n/a
S95T002174		A	Calcium -ICP-Acid Digest	ug/g	101.1	1.13e-01	6.36e+03	6.05e+03	6.20e+03	4.90	111.9	237.0	n/a
S95T002174		A	Cadmium -ICP-Acid Digest	ug/g	95.55	1.30e-03	< 23.7400	<25.9300	n/a	n/a	95.97	23.70	n/a
S95T002174		A	Cerium -ICP-Acid Digest	ug/g	100.8	1.15e-02	<237.4000	<259.300	n/a	n/a	98.02	237.0	n/a
S95T002174		A	Cobalt -ICP-Acid Digest	ug/g	98.12	3.40e-03	< 47.4800	<51.8600	n/a	n/a	97.14	47.50	n/a
S95T002174		A	Chromium -ICP-Acid Digest	ug/g	97.85	1.80e-03	1.20e+03	1.10e+03	1.15e+03	8.71	92.04	23.70	n/a
S95T002174		A	Copper -ICP-Acid Digest	ug/g	97.19	2.60e-03	< 23.7400	<25.9300	n/a	n/a	90.46	23.70	n/a
S95T002174		A	Iron -ICP-Acid Digest	ug/g	96.91	1.69e-02	3.07e+04	2.65e+04	2.86e+04	14.7	n/a	119.0	n/a
S95T002174		A	Potassium -ICP-Acid Digest	ug/g	98.67	4.02e-01	1.94e+03	2.13e+03	2.04e+03	9.48	105.4	712.0	n/a
S95T002174		A	Lanthanum -ICP-Acid Digest	ug/g	99.20	2.10e-03	<118.7000	<129.650	n/a	n/a	100.7	119.0	n/a
S95T002174		A	Lithium -ICP-Acid Digest	ug/g	97.57	-9.00e-04	< 23.7400	<25.9300	n/a	n/a	99.92	23.70	n/a
S95T002174		A	Magnesium -ICP-Acid Digest	ug/g	94.42	2.20e-02	1.30e+03	1.24e+03	1.27e+03	4.30	95.08	237.0	n/a
S95T002174		A	Manganese -ICP-Acid Digest	ug/g	95.51	3.00e-04	409.2	353.2	381.2	14.7	89.26	23.70	n/a
S95T002174		A	Molybdenum -ICP-Acid Digest	ug/g	98.64	5.30e-03	<118.7000	<129.650	n/a	n/a	97.88	119.0	n/a
S95T002174		A	Sodium -ICP-Acid Digest	ug/g	118.7	2.92e-01	1.25e+05	1.31e+05	1.28e+05	5.17	n/a	237.0	n/a
S95T002174		A	Neodymium -ICP-Acid Digest	ug/g	96.96	5.70e-03	<237.4000	<259.300	n/a	n/a	106.2	237.0	n/a
S95T002174		A	Nickel -ICP-Acid Digest	ug/g	97.10	-4.00e-03	1.27e+04	1.29e+04	1.28e+04	1.51	96.99	47.50	n/a
S95T002174		A	Phosphorus -ICP-Acid Digest	ug/g	98.91	-1.37e-02	1.29e+04	1.58e+04	1.44e+04	20.0	118.4	475.0	n/a
S95T002174		A	Lead -ICP-Acid Digest	ug/g	95.74	2.44e-02	1.86e+03	1.73e+03	1.79e+03	6.93	92.25	237.0	n/a
S95T002174		A	Sulfur -ICP-Acid Digest	ug/g	92.87	4.82e-02	1.70e+03	2.09e+03	1.90e+03	20.4	90.23	119.0	n/a
S95T002174		A	Antimony -ICP-Acid Digest	ug/g	91.30	2.00e-04	<474.8000	<518.600	n/a	n/a	92.42	475.0	n/a
S95T002174		A	Selenium -ICP-Acid Digest	ug/g	95.48	2.60e-03	<237.4000	<259.300	n/a	n/a	95.58	237.0	n/a
S95T002174		A	Silicon -ICP-Acid Digest	ug/g	261.5	1.04e-01	2.52e+03	2.55e+03	2.54e+03	0.87	112.4	119.0	n/a
S95T002174		A	Samarium -ICP-Acid Digest	ug/g	96.36	-1.12e-02	<237.4000	<259.300	n/a	n/a	95.81	237.0	n/a
S95T002174		A	Strontium -ICP-Acid Digest	ug/g	97.31	0.00e+00	3.94e+04	4.00e+04	3.97e+04	1.39	n/a	23.70	n/a
S95T002174		A	Titanium-ICP-Acid Digest	ug/g	95.93	3.90e-03	48.26	44.23	46.24	8.71	95.37	23.70	n/a
S95T002174		A	Thallium -ICP-Acid Digest	ug/g	93.66	2.80e-03	<474.8000	<518.600	n/a	n/a	94.40	475.0	n/a
S95T002174		A	Uranium -ICP-Acid Digest	ug/g	94.84	-3.94e-02	4.74e+04	4.98e+04	4.86e+04	4.96	n/a	950.0	n/a
S95T002174		A	Vanadium -ICP-Acid Digest	ug/g	95.99	-2.00e-03	<118.7000	<129.650	n/a	n/a	96.16	119.0	n/a
S95T002174		A	Zinc -ICP-Acid Digest	ug/g	93.84	7.20e-03	245.9	225.6	235.7	8.61	94.60	23.70	n/a
S95T002174		A	Zirconium -ICP-Acid Digest	ug/g	96.74	-6.00e-04	31.16	<25.9300	n/a	n/a	95.62	23.70	n/a

WHC-SD-WM-DP-145, REV. 1

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002354			Undecane (C11)	ug/g	n/a	n/a	J 107.000	1.86e02J	n/a	n/a	n/a	372.0	n/a
S95T002354			Tridecane (C13)	ug/g	n/a	n/a	J 325.000	4.81e02J	n/a	n/a	n/a	372.0	n/a
S95T002354			Tetradecane (C14)	ug/g	n/a	n/a	J 241.000	3.6e+02J	n/a	n/a	n/a	372.0	n/a
S95T002354			Tri-n-butylphosphate	ug/g	n/a	n/a	U 372.00	273.00U	n/a	n/a	74.12	372.0	n/a
S95T002354			Pentadecane (C15)	ug/g	n/a	n/a	J 93.400	1.29e02J	n/a	n/a	n/a	372.0	n/a
S95T002354			Nonane (C9)	ug/g	n/a	n/a	J 11.900	25.000J	n/a	n/a	68.18	372.0	n/a
S95T002354			Dodecane (C12)	ug/g	n/a	n/a	J 285.000	4.25e02J	n/a	n/a	n/a	372.0	n/a
S95T002354			Decane (C10)	ug/g	n/a	n/a	J 26.800	46.000J	n/a	n/a	n/a	372.0	n/a
S95T002570		W	Bromide by Ion Chromatograph	ug/g	96.35	<1.26e-01	<9.364e+0	<8.83e3	n/a	n/a	n/a	9.36e+03	n/a
S95T002570		W	Chloride by IC - Dionex 4000i	ug/g	97.34	5.50e-02	3.59e+03	2.87e+03	3.23e+03	22.3	n/a	1.26e+03	n/a
S95T002570		W	Fluoride by IC - Dionex 4000i	ug/g	94.58	<1.30e-02	<9.662e+0	<9.11e2	n/a	n/a	n/a	966.2	n/a
S95T002570		W	Nitrite by IC - Dionex 4000i	ug/g	92.61	<1.07e-01	5.54e+04	5.35e+04	5.44e+04	3.49	n/a	7.95e+03	n/a
S95T002570		W	Nitrate by IC - Dionex 4000i	ug/g	98.05	<1.40e-01	1.11e+05	1.09e+05	1.10e+05	1.82	n/a	1.04e+04	n/a
S95T002570		W	Oxalate by IC - Dionex 4000i	ug/g	98.69	1.010	<7.805e+0	<7.36e3	n/a	n/a	n/a	7.80e+03	n/a
S95T002570		W	Phosphate by IC - Dionex 4000i	ug/g	89.93	1.110	<2.200e+0	<2.07e4	n/a	n/a	n/a	2.20e+04	n/a
S95T002570		W	Sulfate by IC - Dionex 4000i	ug/g	95.56	2.93e-01	2.53e+04	2.44e+04	2.48e+04	3.62	n/a	1.01e+04	n/a

INTERIM

INTERIM

Rev. 1 Report for BY-108
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 5(D)

TABLE 2

SEGMENT PORTION: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001978			TOC by Persulfate/Coulometry	ug/g	90.33	4.100	7.72e+03	7.58e+03	7.65e+03	1.83	n/a	40.00	n/a
S95T001978			% Water by TGA on Perkin Elmer	%	100.3	n/a	32.34	34.59	33.47	5.63	n/a	n/a	n/a
S95T001978			DSC Exotherm on Perkin Elmer	Joules/g	100.7	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001978			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001978			Cyanide by Microdist. & Spec.	ug/g	85.39	4.20e-02	98.40	98.30	98.35	0.10	98.30	112.0	n/a
S95T002014	F		Alpha of Digested Solid	uCi/g	109.3	<9.89e-02	3.90e-01	3.74e-01	3.82e-01	4.19	138.8	1.82e-01	4.41E+01
S95T002175	A		Silver -ICP-Acid Digest	ug/g	95.56	2.10e-03	< 14.9000	<14.8400	n/a	n/a	n/a	14.90	n/a
S95T002175	A		Aluminium -ICP-Acid Digest	ug/g	100.1	1.51e-02	2.10e+04	2.23e+04	2.16e+04	6.12	n/a	74.50	n/a
S95T002175	A		Arsenic -ICP-Acid Digest	ug/g	97.54	6.30e-03	< 74.5000	<74.2000	n/a	n/a	n/a	74.50	n/a
S95T002175	A		Boron -ICP-Acid Digest	ug/g	114.7	2.72e-02	< 74.5000	<74.2000	n/a	n/a	n/a	74.50	n/a
S95T002175	A		Barium -ICP-Acid Digest	ug/g	97.99	8.00e-04	249.0	263.3	256.1	5.58	n/a	74.50	n/a
S95T002175	A		Beryllium -ICP-Acid Digest	ug/g	105.4	1.00e-04	< 7.4500	<7.4200	n/a	n/a	n/a	7.450	n/a
S95T002175	A		Bismuth -ICP-Acid Digest	ug/g	95.57	7.20e-03	1.72e+03	1.77e+03	1.74e+03	3.18	n/a	149.0	n/a
S95T002175	A		Calcium -ICP-Acid Digest	ug/g	101.1	1.13e-01	1.64e+04	1.74e+04	1.69e+04	5.89	n/a	149.0	n/a
S95T002175	A		Cadmium -ICP-Acid Digest	ug/g	95.55	1.30e-03	< 14.9000	<14.8400	n/a	n/a	n/a	14.90	n/a
S95T002175	A		Cerium -ICP-Acid Digest	ug/g	100.8	1.15e-02	<149.0000	<148.400	n/a	n/a	n/a	149.0	n/a
S95T002175	A		Cobalt -ICP-Acid Digest	ug/g	98.12	3.40e-03	< 29.8000	<29.6800	n/a	n/a	n/a	29.80	n/a
S95T002175	A		Chromium -ICP-Acid Digest	ug/g	97.85	1.80e-03	217.3	233.3	225.3	7.12	n/a	14.90	n/a
S95T002175	A		Copper -ICP-Acid Digest	ug/g	97.19	2.60e-03	18.35	20.30	19.32	10.1	n/a	14.90	n/a
S95T002175	A		Iron -ICP-Acid Digest	ug/g	96.91	1.89e-02	3.76e+04	4.00e+04	3.88e+04	6.12	n/a	74.50	n/a
S95T002175	A		Potassium -ICP-Acid Digest	ug/g	98.67	4.02e-01	1.89e+03	2.11e+03	2.00e+03	11.0	n/a	447.0	n/a
S95T002175	A		Lanthanum -ICP-Acid Digest	ug/g	99.20	2.10e-03	< 74.5000	<74.2000	n/a	n/a	n/a	74.50	n/a
S95T002175	A		Lithium -ICP-Acid Digest	ug/g	97.57	-9.00e-04	< 14.9000	<14.8400	n/a	n/a	n/a	14.90	n/a
S95T002175	A		Magnesium -ICP-Acid Digest	ug/g	94.42	2.20e-02	1.14e+03	1.19e+03	1.16e+03	4.03	n/a	149.0	n/a
S95T002175	A		Manganese -ICP-Acid Digest	ug/g	95.51	3.00e-04	374.9	400.5	387.7	6.61	n/a	14.90	n/a
S95T002175	A		Molybdenum -ICP-Acid Digest	ug/g	98.64	5.30e-03	< 74.5000	<74.2000	n/a	n/a	n/a	74.50	n/a
S95T002175	A		Sodium -ICP-Acid Digest	ug/g	118.7	2.92e-01	1.39e+05	1.47e+05	1.43e+05	5.98	n/a	149.0	n/a
S95T002175	A		Neodymium -ICP-Acid Digest	ug/g	96.96	5.70e-03	<149.0000	<148.400	n/a	n/a	n/a	149.0	n/a
S95T002175	A		Nickel -ICP-Acid Digest	ug/g	97.10	-4.00e-03	7.81e+03	8.34e+03	8.08e+03	6.56	n/a	29.80	n/a
S95T002175	A		Phosphorus -ICP-Acid Digest	ug/g	98.91	-1.37e-02	1.95e+04	2.07e+04	2.01e+04	6.10	n/a	298.0	n/a
S95T002175	A		Lead -ICP-Acid Digest	ug/g	95.74	2.44e-02	2.75e+03	2.90e+03	2.83e+03	5.31	n/a	149.0	n/a
S95T002175	A		Sulfur -ICP-Acid Digest	ug/g	92.87	4.82e-02	907.2	946.9	927.0	4.29	n/a	74.50	n/a
S95T002175	A		Antimony -ICP-Acid Digest	ug/g	91.30	2.00e-04	<298.0000	<296.800	n/a	n/a	n/a	298.0	n/a
S95T002175	A		Selenium -ICP-Acid Digest	ug/g	95.48	2.60e-03	<149.0000	<148.400	n/a	n/a	n/a	149.0	n/a
S95T002175	A		Silicon -ICP-Acid Digest	ug/g	261.5	1.04e-01	1.86e+03	1.97e+03	1.91e+03	5.64	n/a	74.50	n/a
S95T002175	A		Samarium -ICP-Acid Digest	ug/g	96.36	-1.12e-02	<149.0000	<148.400	n/a	n/a	n/a	149.0	n/a
S95T002175	A		Strontium -ICP-Acid Digest	ug/g	97.31	0.00e+00	9.54e+03	1.01e+04	9.82e+03	5.68	n/a	14.90	n/a
S95T002175	A		Titanium-ICP-Acid Digest	ug/g	95.93	3.90e-03	46.14	48.60	47.37	5.21	n/a	14.90	n/a
S95T002175	A		Thallium -ICP-Acid Digest	ug/g	93.66	2.80e-03	<298.0000	<296.800	n/a	n/a	n/a	298.0	n/a
S95T002175	A		Uranium -ICP-Acid Digest	ug/g	94.84	-3.94e-02	5.03e+04	5.33e+04	5.18e+04	5.71	n/a	596.0	n/a
S95T002175	A		Vanadium -ICP-Acid Digest	ug/g	95.99	-2.00e-03	< 74.5000	<74.2000	n/a	n/a	n/a	74.50	n/a
S95T002175	A		Zinc -ICP-Acid Digest	ug/g	93.84	7.20e-03	225.3	234.6	230.0	4.01	n/a	14.90	n/a
S95T002175	A		Zirconium -ICP-Acid Digest	ug/g	96.74	-6.00e-04	< 14.9000	<14.8400	n/a	n/a	n/a	14.90	n/a

52

WHC-SD-WM-DP-145, REV. 1

INTERIM

TABLE 2

Sample#	R	A#	Analyte	Unit	Standard %	Blank		Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002355			Undecane (C11)	ug/g	n/a	n/a	J	8.770	22.100J	n/a	n/a	n/a	374.0	n/a
S95T002355			Tridecane (C13)	ug/g	n/a	n/a	J	20.300	55.300J	n/a	n/a	n/a	374.0	n/a
S95T002355			Tetradecane (C14)	ug/g	n/a	n/a	J	12.900	39.900J	n/a	n/a	n/a	374.0	n/a
S95T002355			Tri-n-butylphosphate	ug/g	n/a	n/a	U	374.00	264.00U	n/a	n/a	77.14	374.0	n/a
S95T002355			Pentadecane (C15)	ug/g	n/a	n/a	U	374.00	13.000J	n/a	n/a	n/a	374.0	n/a
S95T002355			Nonane (C9)	ug/g	n/a	n/a	U	374.00	264.00U	n/a	n/a	73.96	374.0	n/a
S95T002355			Dodecane (C12)	ug/g	n/a	n/a	J	20.000	53.100J	n/a	n/a	n/a	374.0	n/a
S95T002355			Decane (C10)	ug/g	n/a	n/a	U	374.00	264.00U	n/a	n/a	n/a	374.0	n/a
S95T002571		W	Bromide by Ion Chromatograph	ug/g	109.3	<1.26e-01	<	2.31e2	<2.31e2	n/a	n/a	96.70	231.0	n/a
S95T002571		W	Chloride by IC - Dionex 4000i	ug/g	109.5	5.60e-02		1.71e+03	1.72e+03	1.72e+03	0.20	138.0	31.10	n/a
S95T002571		W	Fluoride by IC - Dionex 4000i	ug/g	108.2	<1.30e-02	<	8.66e1	96.40	n/a	n/a	109.3	23.80	n/a
S95T002571		W	Nitrite by IC - Dionex 4000i	ug/g	108.1	<1.07e-01		4.65e+04	4.65e+04	4.65e+04	0.00	59.00	196.0	n/a
S95T002571		W	Nitrate by IC - Dionex 4000i	ug/g	107.7	3.87e-01		9.12e+04	1.11e+05	1.01e+05	19.6	47.10	256.0	n/a
S95T002571		W	Oxalate by IC - Dionex 4000i	ug/g	115.8	<1.05e-01		1.17e+03	1.91e+03	1.54e+03	48.1	107.9	192.0	n/a
S95T002571		W	Phosphate by IC - Dionex 4000i	ug/g	107.0	9.38e-01		2.83e+04	2.79e+04	2.81e+04	1.42	90.10	542.0	n/a
S95T002571		W	Sulfate by IC - Dionex 4000i	ug/g	107.6	3.05e-01		2.96e+03	2.60e+03	2.78e+03	13.6	97.60	249.0	n/a

INTERIM

CHAIN OF CUSTODY FORMS

THIS PAGE INTENTIONALLY
LEFT BLANK.

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

) Shipment Number SD-95-001 (2) Sample Number BLANK (3) Supervisor M.C. Jones

) Tank BY-108 (5) Riser 12A (6) Segment BLANK (7) Core 97 (8) Cask Serial Number SW-C1031

adiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<.5 mR/hr	<0.5 mR/hr
Side Dose Rate	<.5 mR/hr	<0.5 mR/hr
Bottom Dose Rate	<.5 mR/hr	<0.5 mR/hr
Smearable Contamination	<20 dpm/100cm² (Alpha)	<20 (Alpha)
	<1000 dpm/100cm² (Beta-Gamma)	<1K (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-045
B. Cask Seal Number	1740
C. Sampler Serial Number	94-383
D. Date and Time Sampler Unseated	7-27-95 / 9:00
E. Expected Liquid Content	100%
F. Expected Solid Content	0%
G. Dose Rate Through Drill String	<.5
H. Expected Sample Length	18" / 19"

1) INFORMATION (Include statement of laboratory tests to be performed.)

55

2) Field Comments

BLANK sample with H2O.

(34) Laboratory Comments

WHC-SD-WM-DP-145, REV. 1

3) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108	222-S	M.C. Jones	7-27-95 9:30	

9) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C. Jones	Jubal D Helms / Jubal D Helms	7-27-95 0930	

9) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
Jubal D Helms	E E Dubes	7-27-95 0945	

7) 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

STRIBUTION: 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)

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

hipment Number SP-95-001 (2) Sample Number 95-128 (3) Supervisor [illegible]

ank 241-BY-108 (5) Riser 12A (6) Segment 1A (7) Core X 97 (8) Cask Serial Number C1024

ation Survey Data:	(9) FIELD	(33) LABORATORY
ver Top Dose Rate	1.5 mR/hr	<0.5
de Dose Rate	MAX 1.0 mR/hr	.5
ttom Dose Rate	MAX 1.5 mR/hr	.5
nearable Contamination	<20 dpm/100cm² (Alpha)	<20 (Alpha)
	<1000 dpm/100cm² (Beta-Gamma)	<1K (Beta-Gamma)
RCT* (HPT)	[illegible] (Signature)	RCT* (HPT) [illegible] (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-045
B. Cask Seal Number	1739
C. Sampler Serial Number	94-374
D. Date and Time Sampler Unseated	2013 7-25-95
E. Expected Liquid Content	SLUDGE-REL. SOF
F. Expected Solid Content	0%
G. Dose Rate Through Drill String	35 mR/HR
H. Expected Sample Length	5'-6"

INFORMATION (Include statement of laboratory tests to be performed.)

95

Field Comments
20 RECOVERY PER X-RAY IMAGE

(34) Laboratory Comments

Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
41-BY-108	222-S	M.C. Jones [illegible]	7-27-95 8:45	
Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
[illegible] M.C. Jones		Jubal D Helms / Jubal D Helms	7-27-95 0845	
Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
Jubal D Helms Jubal D Helms				
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, 54-43 BC-6000-309 (02/94)

WHC-SD-WM-DP-145, REV. 1

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-002 (2) Sample Number 12 SP 95-129 (3) Supervisor [illegible]

(4) Tank 241 ~~B-108~~ BY 108 (5) Riser 12A (6) Segment 1 (7) Core 98 (8) Cask Serial Number C-1046

Radiation Survey Date: 7-31-95

	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<.5 mR/hr	<0.5 mR/hr
Side Dose Rate	10 mR/hr	10 mR/hr
Bottom Dose Rate	3 mR/hr	3 mR/hr
Smearable Contamination	<20 dpm/100 cm² (Alpha)	<20 (Alpha)
	<1000 dpm/100 cm² (Beta-Gamma)	<1K (Beta/Gamma)
RCT* (HPT)	R Iller (Signature)	[illegible] (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-045
B. Cask Seal Number	1741
C. Sampler Serial Number	94-376
D. Date and Time Sampler Unseated	7-27-95, 1530
E. Expected Liquid Content	50%
F. Expected Solid Content	50%
G. Dose Rate Through Drill String	600 mR/HR
H. Expected Sample Length	<5"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

(12) Field Comments 15" Sample

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108 241-B-107	222-S	D C Hartley	7-28-95 1030	
(18) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
D C Hartley		[illegible]	7-28-95 1030	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
[illegible]		Keith Fuller KEITH FULLER	7/28/95 1112	
(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, S6-85 Goldenrod - Tank Farm Operations, S4-43 BC-6000-309 (02/94)

WHC-SD-WM-TI-613, REV

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-002 (2) Sample Number ~~95-129~~ 95-130 (3) Supervisor R. F. Frost

(4) Tank By-108 (5) Riser riser 12A (6) Segment 2 (7) Core 98 (8) Cask Serial Number C-1030

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5 mR/hr.	<.5 mR/hr
Side Dose Rate	10 mR/hr.	12 mR/hr
Bottom Dose Rate	5 mR/hr	4.5 mR/hr
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	<1K (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) Charlene Cooper (Signature)

(10) Shipment Description

A. Work Package Number FS-95-00045/0

B. Cask Seal Number 1734 7-28-95

C. Sampler Serial Number ~~94-376~~ 375

D. Date and Time Sampler Unseated ~~7-27-95~~ 7-28-95 1421

E. Expected Liquid Content sludge 50%

F. Expected Solid Content sludge 50%

G. Dose Rate Through Drill String 600 mR/hR

H. Expected Sample Length 18"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

TO 222's LABS.

58

(12) Field Comments

(34) Laboratory Comments

0945

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
	222's LAB	D A KRAHN	7-31-95	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
D A KRAHN		James R Kenhartz	7-31-95 0945	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
James R Kenhartz		N. LAPIERS	7-31-95 1035	
(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, S6-85 Goldenrod - Tank Farm Operations, S4-43 000-309 (02/94)

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-002 (2) Sample Number 95-130 (3) Supervisor [illegible]

(4) Tank 241 BY-108 (5) Riser 12A (6) Segment 2 (7) Core 98 (8) Cask Serial Number C-1030

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate		
Side Dose Rate		
Bottom Dose Rate		
Smearable Contamination	(Alpha)	(Alpha)
	(Beta-Gamma)	(Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	1734
C. Sampler Serial Number	94-375
D. Date and Time Sampler Unseated	7-28-95 ~~7-27-95~~ 1421
E. Expected Liquid Content	SLUDGE
F. Expected Solid Content	SLUDGE
G. Dose Rate Through Drill String	600 mR/HR
H. Expected Sample Length	19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

To 222-S LABS

(12) Field Comments

BEST AVAILABLE COPY

(34) Laboratory Comments

0945

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
241 BY-108	222 S LAB	D.A. KRAHN	7-31-95	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
D.A. KRAHN		Janice R. Fluharty	7-31-95 0955	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
[illegible]		N. LAPIERS	7-31-95 1040	
(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, S6-85 Goldenrod - Tank Farm Operations, S4-43

BC-6000-309 (02/94)

WHC-SD-WM-ETP-165, REV. 1

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number SP-95-0032 (2) Sample Number 95-131 (3) Supervisor R.F. Trust

(4) Tank BY-108 (5) Riser 12A (6) Segment 3 (7) Core 98 (8) Cask Serial Number 1007-C

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5 mR/hr.	<0.5 mR/hr
Side Dose Rate	13 mR/hr	12 mR/hr
Bottom Dose Rate	9 mR/hr.	8 mR/hr
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	<1K (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) Charlene Cooper (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-0004510
B. Cask Seal Number	1733
C. Sampler Serial Number	95-160
D. Date and Time Sampler Unseated	7-30-95 1007
E. Expected Liquid Content	sludge 50%
F. Expected Solid Content	sludge 50%
G. Dose Rate Through Drill String	800 mR/HR
H. Expected Sample Length	19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

222's Lab.

60

BEST AVAILABLE COPY

(12) Field Comments

(34) Laboratory Comments

0940

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108 riser 12A	222's Lab	DA KRAHN	7-31-95	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
DA KRAHN		James R. Fleckenstein	7-31-95/0945	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
James R. Fleckenstein		N. LAPIERS	7-31/95 1048	
(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.	Sampler
☒ Yes ☐ No	☑ Yes ☐ No	☑ Yes	☑ Yes ☐ No	☑ Yes ☐ No

WHC-SD-WM-DP-145, REV. 1

INSTRUCTIONS: White - Office of Origin; Yellow - Recipient of Sample; Pink - Core Sampling; Goldenrod - Task Force Operations

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

pment Number 5p-95-00~~4~~2 MCS (2) Sample Number 95-132 (3) Supervisor R. Frank

k 241 BY-108 (5) Riser 12A (6) Segment 4 (7) Core 98 (8) Cask Serial Number C-1037

ion Survey Data:	(9) FIELD	(33) LABORATORY
r Top Dose Rate	<0.5	<15 mR/h
Dose Rate	200	250 mR/h
tom Dose Rate	3	110 mR/h
e arable Contamination	<20 dpm/100cm² (Alpha)	<20 dpm (Alpha)
	<1000 dpm/100cm² (Beta-Gamma)	<1K dpm (Beta-Gamma)
RCT* (HPT)	(Signature) 8-1-95	RCT* (HPT) (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	1738
C. Sampler Serial Number	95-162
D. Date and Time Sampler Unseated	7-30-95 1207
E. Expected Liquid Content	sludge
F. Expected Solid Content	sludge.
G. Dose Rate Through Drill String	5 rem @ 3"
H. Expected Sample Length	18"

INFORMATION (Include statement of laboratory tests to be performed.)

61

BEST AVAILABLE COPY

Field Comments
222's Lab.

(34) Laboratory Comments
11:03

) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
241 BY-180 12A		D.A. KRAHN	8-1-95 11:07	
) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
DAKRAHN			8-1-95 11:03	
) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
		N. LAPIERS	8-1-95 1125	
7) 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-241, REV. 1

Pink - Core Sampling S6-85 Goldenrod - Tank Farm Operations S4-43 RC 6000 209 (02/94)

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

) Shipment Number SP-95-003 (2) Sample Number 95-133 (3) Supervisor M.C. Jones

) Tank BY-108 (5) Riser 12-A (6) Segment 1 (7) Core 99 (8) Cask Serial Number C-1066

diation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<1 mR/hr	<.5 mR/hr
Side Dose Rate	2.5 mR/hr	<.5 mR/hr
Bottom Dose Rate	2.5 mR/hr	1.5 mR/hr
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1K (Beta-Gamma)	<1K (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) Charles Cooper (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-045
B. Cask Seal Number	1749
C. Sampler Serial Number	94-363
D. Date and Time Sampler Unseated	7-31-95 / 3:36 AM
E. Expected Liquid Content	50%
F. Expected Solid Content	50%
G. Dose Rate Through Drill String	50 mr/HR
H. Expected Sample Length	19"

1) INFORMATION (Include statement of laboratory tests to be performed.)

BEST AVAILABLE COPY

62

1) Field Comments	(34) Laboratory Comments
X-Ray show sampler Empty.	

) Point of Origin: 105 BY	(14) Destination: 222-S	(15) Sender Name (Sign and PRINT): DA KRAWN	(16) Date/Time: 7/31/95 0990	(17) Sender Comments
) Relinquished By (Sign and PRINT): DA KRAWN		(20) Received By (Sign and PRINT): James R. Fuhrer	(21) Date/Time: 7/31 0945	(22) Receiver Comments
) Relinquished By (Sign and PRINT): James R. Fuhrer		(24) Received By (Sign and PRINT): N. LAPIERS	(25) Date/Time: 7-31-95/1040	(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?
☒ Yes ☐ No	☒ Yes ☐ No	Shipment No. ☒ Yes L ; Cask Seal No. ☒ Yes ☐ No ; Sample ☒ Yes ☐ No

WHC-SD-WM-DP-145, REV. 1

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

hipment Number SP HOS SP-95-004 (2) Sample Number 95-134 (3) Supervisor Zane Pennington

ank 241BY108 (5) Riser 12A (6) Segment 2 (7) Core 99 (8) Cask Serial Number 1032

COPY

ition Survey Data:	(9) FIELD	(33) LABORATORY
er Top Dose Rate	1.5	1.5
le Dose Rate	13	10
ttom Dose Rate	1.5	3
nearable Contamination	<20 (Alpha)	<20 (Alpha)
	4000 (Beta-Gamma)	<1K (Beta-Gamma)
RCT* (HPT)	J Weiss (Signature)	RCT* (HPT) Charlene Cooper (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	1736
C. Sampler Serial Number	94-227
D. Date and Time Sampler Unseated	7/31/95 @ 1408
E. Expected Liquid Content	50%
F. Expected Solid Content	50%
G. Dose Rate Through Drill String	640 mR/HR
H. Expected Sample Length	19"

INFORMATION (Include statement of laboratory tests to be performed.)

BEST AVAILABLE COPY

63

Field Comments

(34) Laboratory Comments

) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
41BY108	222-S	M.C. Jones	8-1-95 0850	
) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C. Jones		C.E. Byrd	8-1-95 0920	
) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
C.E. Byrd		N. Lapiers N. LAPIERS	8-1-95 1005	
) 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-[illegible], REV. 1

Yellow - Recipient of Sample Pink - Core Sampling S6-85 Goldenrod - Tank Farm Operations S4-43 BC-6000-309 (02/94)

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

Shipment Number SP-95-004 (2) Sample Number 95-135 (3) Supervisor D. L.

Tank 241-BY-108 (5) Riser 12A (6) Segment 3 (7) Core 099 (8) Cask Serial Number C1020

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	1.5 mr/hr	1.5 mr/hr
Side Dose Rate	10 mr/hr	10 mr/hr
Bottom Dose Rate	4.5 mr/hr	6 mr/hr
Smearable Contamination	<20 dpm (Alpha)	<20 dpm (Alpha)
	<1000 dpm (Beta-Gamma)	<1K dpm (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	1732
C. Sampler Serial Number	94-313
D. Date and Time Sampler Unseated	7-31-95, 2031
E. Expected Liquid Content	10%
F. Expected Solid Content	90%
G. Dose Rate Through Drill String	400 mr/hr.
H. Expected Sample Length	191"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

BEST AVAILABLE COPY

64

(12) Field Comments

X-Ray Shows 4"-4.5" of MATERIAL IN Sampler

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
241-BY-108	222S	M.C. Jones	8-1-95 6:50	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C. Jones			8/1/95 0920	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
		N. LAPIERS	8-1-95 1005	
(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 Date Consistent with this Record?
☑ Yes ☐ No	☑ Yes ☐ No	Shipment No. ☑ Yes ☐ No; Cask Seal No. ☑ Yes ☐ No; Sample No. ☑ Yes ☐ No

WHC-SD-WM-DP-165, REV. 1

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 57205 (2) Sample Number 95-136 (3) Supervisor D. Hartley

(4) Tank 241BY108 (5) Riser 12A (6) Segment 4 (7) Core C99 (8) Cask Serial Number C107

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<.5 mr/hr	<.5 mr/hr
Side Dose Rate	340 mr/hr	340 mr/hr
Bottom Dose Rate	100 mr/hr ~~1000~~ 8-2-95	80 mr/hr
Smearable Contamination	<20 (Alpha)	<20 dpm (Alpha)
	4000 (Beta-Gamma)	<1000 dpm (Beta-Gamma)
RCT* (HPT)	J. Weiss (Signature)	RCT* (HPT) C. Cooper (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	1731
C. Sampler Serial Number	94-222
D. Date and Time Sampler Unseated	7-31-95, 2213
E. Expected Liquid Content	10%
F. Expected Solid Content	90%
G. Dose Rate Through Drill String	15 R/HR
H. Expected Sample Length	19"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

BEST AVAILABLE COPY

95

(12) Field Comments

X-RAY SHOW SAMPLER MAY BE FULL. OBSERVED MATERIAL HANGING FROM BOTTOM OF SAMPLER.

(34) Laboratory Comments

WHC-SD-WM-DP-145 REV. 1

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
241BY108	2225	James Sickels	8-3-95 13:10	
(18) Relinquished By (Sign and PRINT) James Sickels		(20) Received By (Sign and PRINT) James Rutherford	(21) Date/Time 8-3-95 13:0	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) James Rutherford		(24) Received By (Sign and PRINT) EE Dubes	(25) Date/Time 8-3-95 1350	(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?
☒ Yes ☐ No	☒ Yes ☐ No	Shipment No. ☒ Yes ☐ No; Cask Seal No. ☒ Yes ☐ No; Sample No. ☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

Shipment Number SP-95-004 (2) Sample Number BLANK (3) Supervisor M.C. Jones

Tank BY-108 (5) Riser 12A (6) Segment BLANK (7) Core 99 (8) Cask Serial Number N/A

liation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate		<.5 mR/h
Side Dose Rate		<.5 mR/h
Bottom Dose Rate		<.5 mR/h
Smearable Contamination	(Alpha)	<20 dpm (Alpha)
	(Beta-Gamma)	<1K dpm (Beta-Gamma)
	RCT* (HPT) (Signature)	RCT* (HPT) Charlene Cooper (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-0045
B. Cask Seal Number	1782
C. Sampler Serial Number	N/A
D. Date and Time Sampler Unseated	8-1-95 4:50 A.M.
E. Expected Liquid Content	100%
F. Expected Solid Content	0%
G. Dose Rate Through Drill String	<.5
H. Expected Sample Length	100 mL.

) INFORMATION (Include statement of laboratory tests to be performed.)

BEST AVAILABLE COPY

99

) Field Comments

Lithium Bromide Field Blank.

(34) Laboratory Comments

) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108	222-S	M.C. JONES M.C. Jones	8-1-95 7:00	
) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C. Jones M.C. JONES		C.E. Boyd C.E. Boyd	8-1-95 0920	
) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
C.E. Boyd		N. Lapiers N. LAPIERS	1010 8-1-95	
) 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?		
☑ Yes ☐ No	☑ Yes ☐ No	Shipment No. ☑ Yes ☐	Cask Seal No. ☑ Yes ☐ No	Sample No. ☑ Yes ☐ No

STRIBUTION: 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-145, REV. 1

503 372 1432

002

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

pment Number SP-95-005 (2) Sample Number 95-137 (3) Supervisor [illegible]

k BY-108 (5) Riser 7 (6) Segment 1 (7) Core 100 (8) Cask Serial Number G-1019

om Survey Data:	(9) FIELD	(33) LABORATORY
r Top Dose Rate	<0.5 mR/HR	<0.5 mr/hr
Dose Rate	<0.5 mR/HR	<0.5 mr/hr
om Dose Rate	<0.5 mR/HR	<0.5 mr/hr
arable Contamination	<20 dpm (Alpha)	<20 dpm (Alpha)
	<1K dpm (Beta-Gamma)	<1K dpm (Beta-Gamma)
	RCT (HPT) [illegible] (Signature)	RCT (HPT) [illegible] (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-0045
B. Cask Seal Number	2587
C. Sampler Serial Number	94-390 2:52
D. Date and Time Sampler Unseated	8-4-95 @ 4:34
E. Expected Liquid Content	50%
F. Expected Solid Content	50%
G. Dose Rate Through Drill String	<.5 mR/HR
H. Expected Sample Length	19"

NFORMATION (Include statement of laboratory tests to be performed.)

Seal #2619 removed - new seal #2587 put on

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To John Baldwin	From
Co.	Co.
Dept.	Phone #
Fax #	Fax #

(34) Laboratory Comments

BEST AVAILABLE COPY

Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108	222-S	[illegible]	8-4-95-1549	
Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
[illegible]		[illegible]	8-4-95/1549	
Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
[illegible]		[illegible]	8-4-95/1910	
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 - Task Form Originator, 56-43 BC-6000-309 (02/94)

WHC-SD-WM-TP-[illegible], REV. [illegible]

95000107
S95T001388

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

pment Number SP-95-005 (2) Sample Number 95-137 (3) Supervisor Lane Langmann

k BY-108 (5) Riser 7 (6) Segment 1 (7) Core 100 (8) Cask Serial Number G1019

om Survey Data:	(9) FIELD	(33) LABORATORY
r Top Dose Rate	<0.5 mR/HR	<0.5 mr/hr
Dose Rate	<0.5 mR/HR	<0.5 mr/hr
om Dose Rate	<0.5 mR/HR	<0.5 mr/hr
arable Contamination	<20 dpm (Alpha)	<20 dpm (Alpha)
	<1K dpm (Beta-Gamma)	<1K dpm (Beta-Gamma)
	RCT* (HPT) GMBrewer (Signature)	RCT* (HPT) A Ahrenal (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-0045
B. Cask Seal Number	2587
C. Sampler Serial Number	94-390 2:52
D. Date and Time Sampler Unseated	8-4-95 @ 4:34
E. Expected Liquid Content	50%
F. Expected Solid Content	50%
G. Dose Rate Through Drill String	<.5 mR/HR
H. Expected Sample Length	19"

NFORMATION (Include statement of laboratory tests to be performed.)
Seal #2819 removed - new seal #2587 put on

Post-It™ brand fax transmittal memo 7671 | # of pages ▸

To John Baldwin	From
Co.	Co.
Dept.	Phone #
Fax #	Fax #

(34) Laboratory Comments

BEST AVAILABLE COPY

Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108	222-S	Lane Langmann	8-4-95-1549	
Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT) James Kuchanty	(21) Date/Time	(22) Receiver Comments
Lane Langmann		James Kuchanty	8-4-95/1549	
Relinquished By (Sign and PRINT) James Kuchanty		(24) Received By (Sign and PRINT) G. Willey	(25) Date/Time	(26) Receiver Comments
James Kuchanty		G. Willey	8-4-95/1910	
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 Date Consistent with this Record?		
		Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐	☒ Yes ☐ No	☒ Yes ☐ No

STRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, S6-85 Goldenrod - Tank Farm Operations S4-43 BC-[illegible]-309 (02/94)

WHC-SD-WM-DP-145, REV. 1

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

1) Shipment Number 200-08-TF (2) Sample Number 95-166 (3) Supervisor M.C. Jones

4) Tank BY-108 (5) Riser 7 (6) Segment 1 (7) Core 104' (8) Cask Serial Number SN-21-G

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5mR/hr	<0.5 mR/hr
Side Dose Rate	1.5mR/hr	1.5 mR/hr
Bottom Dose Rate	2.3mR/hr	2 mR/hr
Smearable Contamination	<20 dpm (Alpha)	<20 dpm (Alpha)
	<1000 dpm (Beta-Gamma)	<1000 dpm (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-0045
B. Cask Seal Number	1709
C. Sampler Serial Number	94-311
D. Date and Time Sampler Unseated	8-16-95 / 22:02
E. Expected Liquid Content	20%
F. Expected Solid Content	80%
G. Dose Rate Through Drill String	40 MR/HR
H. Expected Sample Length	17"

11) INFORMATION (Include statement of laboratory tests to be performed.)

69

2) Field Comments

X-RAY Showed ABOUT 5" in SAMPLER.

BEST AVAILABLE COPY

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
41-BY-108	222S	DC Hartley DC Hartley	8-17-95	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
DC Hartley DC Hartley		Christine S Parker Christine S. Parker	8-17-95 1342	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
Christine S Parker Christine S. Parker		EE Dubois EE Dubois	8-17-95 1415	
(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

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number SP-95-006 (2) Sample Number 95-152 (3) Supervisor Hartley

Tank 241-BY-108 (5) Riser 7 (6) Segment #1 (7) Core 102 (8) Cask Serial Number C1047

iation Survey Date:	(9) FIELD	(33) LABORATORY
ver Top Dose Rate	<.5	<0.5
ide Dose Rate	<.5	<0.5
ottom Dose Rate	<.5	<0.5
me erable Contamination	<20 dpm (Alpha)	<20 dpm /100cm² (Alpha)
	<1000 dpm (Beta-Gamma)	<1000 dpm /100 cm² (Beta-Gamma)
RCT* (HPT)	R Klein (Signature)	RCT (HPT) J. W. Rem (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	1729
C. Sampler Serial Number	94-194
D. Date and Time Sampler Unseated	409 / 8-10-95
E. Expected Liquid Content	0
F. Expected Solid Content	100%
G. Dose Rate Through Drill String	20 mR/HR.
H. Expected Sample Length	19"

IN:FORMATION (Include statement of laboratory tests to be performed.)

Field Comments - Sampler was pulled on 8-16-95 @ 021

:I Showed No Recovery

BEST AVAILABLE COPY

Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
1r-BY-108	222-S	DC Hartley DC Hartley	8/16/95 1380	
Relinquished By (Sign and PRINT)		**(20) Received By (Sign and PRINT)**	**(21) Date/Time**	**(22) Receiver Comments**
DC Hartley DC Hartley		James Humphrey	8-16-95/1350	
Relinquished By (Sign and PRINT)		**(24) Received By (Sign and PRINT)**	**(25) Date/Time**	**(26) Receiver Comments**
James Humphrey James Humphrey		EE Dobbs EE Dobbs	8-16-95/1346	
Relinquished By (Sign and PRINT)		**(28) Received By (Sign and PRINT)**	**(29) Date/Time**	**(30) Receiver Comments**

8) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?		
☒ Yes ☐ No	☒ Yes ☐ No	Shipment No. ☒ Yes ☐	Cask Seal No. ☒ Yes ☐ No	Sample N ☒ Yes ☐ No

RIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, S6-85 Goldenrod - Tank Farm Operations, S4-43

WHC-SD-WM-DP-245, REV. 1

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200-08-TE (2) Sample Number 95-167 (3) Supervisor Jane Perryman

Tank BY-108 (5) Riser 7 (6) Segment 2 (7) Core 104 (8) Cask Serial Number C-1040

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5 mR/hr	<0.5 mR/hr
Side Dose Rate	20 MR/hr	20 mR/hr
Bottom Dose Rate	5 MR/hr	5 mR/hr
Removable Contamination (Alpha)	<20 dpm 100cm²	<20 dpm
(Beta-Gamma)	<1000 dpm 100cm²	<1000 dpm
RCT (HPT) (Signature)	Janet Capilouto	
RCT (HPT) (Signature)	[illegible]	

(10) Shipment Description

A. Work Package Number	95-045
B. Cask Seal Number	1383
C. Sampler Serial Number	94-304
D. Date and Time Sampler Unseated	8/18/95/0325
E. Expected Liquid Content	50%
F. Expected Solid Content	50%
G. Dose Rate Through Drill String	800 mR/HR
H. Expected Sample Length	19"

INFORMATION (Include statement of laboratory tests to be performed.)

Field Comments 17" RECOVERY SHOWN BY XRI

Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
H1-BY-108	222-S	Kathy D Hartley	8-18-95 1500	
Relinquished By (Sign and PRINT)		**(20) Received By (Sign and PRINT)**	**(21) Date/Time**	**(22) Receiver Comments**
Kathy D Hartley		James Fusharty	8-18-95/1320	
Relinquished By (Sign and PRINT)		**(24) Received By (Sign and PRINT)**	**(25) Date/Time**	**(26) Receiver Comments**
James Fusharty		Keith Fuller / KEITH FULLER	8-18-95/1353	
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-165, REV. 1

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200-DR-TF (2) Sample Number 95-168 (3) Supervisor Tom Lungman

Tank BY-108 (5) Riser 7 (6) Segment 3 (7) Core 104 (8) Cask Serial Number 94-301 8-18-95 10G

Diation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5 mR/hr	<0.5 mR/hr
Side Dose Rate	20 mR/hr	18 mR/hr
Bottom Dose Rate	5 mR/hr	7 mR/hr
Smearable Contamination	<20 dpm 100cm2 (Alpha)	<20 dpm (Alpha)
	<1000 dpm 100cm2 (Beta-Gamma)	<1000 dpm (Beta-Gamma)
	RCT* (HPT) Janet Cope (Signature)	RCT* (HPT) (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-045/0
B. Cask Seal Number	1384
C. Sampler Serial Number	94-301
D. Date and Time Sampler Unseated	8-18-95 @ 0517
E. Expected Liquid Content	50%
F. Expected Solid Content	50%
G. Dose Rate Through Drill String	1.5 R/HR
H. Expected Sample Length	19"

) INFORMATION (Include statement of laboratory tests to be performed.)

22

) Field Comments 17½" RECOVERY SHOWN BY XRI

(34) Laboratory Comments

) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
41-B4-108	2225	D Chartley	8-18-95 1300	
) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
D Chartley		James Fitzhardy	8-18-95/1320	
) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
James Fitzhardy		E E Dubes	8-18-95/1345	
) 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 ☐	☒ Yes ☐ No	☒ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management; Recipient of Sample; Pink - Core Sampling; Goldenrod - Tank Farm

WHC-SD-WM-DP-145, REV. 1

95000118

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200W-08-TF (2) Sample Number 95-169 (3) Supervisor R. Lynch Lust

Tank BY-108 (5) Riser #7 (6) Segment 4 (7) Core 104 (8) Cask Serial Number SN-5G

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Liner Top Dose Rate	<1.5 mR/hr	<0.5 mR/hr
Side Dose Rate	30 mR/hr	30 mR/h
Bottom Dose Rate	15 mR/hr	15 mR/h
Removable Contamination	<20 dpm (Alpha)	<20 dpm (Alpha)
	<1000 dpm (Beta-Gamma)	<1000 dpm (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	4418
C. Sampler Serial Number	94-314
D. Date and Time Sampler Unseated	8-18-95 1111 am
E. Expected Liquid Content	0%
F. Expected Solid Content	100%
G. Dose Rate Through Drill String	1.2R
H. Expected Sample Length	19"

) INFORMATION (Include statement of laboratory tests to be performed.)

) Field Comments

2225 Lab.
X-RAYED - 18½" SAMPLE

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108	222S Labs	James Sickels JAMES SICKELS	8/21/95 0845	

) Relinquished By (Sign and PRINT) James Sickels JAMES SICKELS	(20) Received By (Sign and PRINT)	(21) Date/Time 8/21/95 0845	(22) Receiver Comments
) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT) E E Dubes	(25) Date/Time 8-21-95 0845	(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

WHC-SD-WM-DP-145, REV. 1

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200W-08-TF (2) Sample Number 95-170 (3) Supervisor R. Frank Frost

Tank BY-108 (5) Riser #7 (6) Segment 5 (7) Core 104 (8) Cask Serial Number SN-16C

Radiation Survey Date:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<.5 mR/hr	<0.5 mR/hr
Side Dose Rate	70 mR/hr	70 mR/hr
Bottom Dose Rate	30 mR/hr	30 mR/hr
Removable Contamination	50 d/m (Alpha)	<20 d/m (Alpha)
	<1000 d/m (Beta-Gamma)	<1000 d/m (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00045/0
B. Cask Seal Number	4420
C. Sampler Serial Number	94-308
D. Date and Time Sampler Unseated	8-18-95 1230
E. Expected Liquid Content	0%
F. Expected Solid Content	100%
G. Dose Rate Through Drill String	2.5 r
H. Expected Sample Length	19"

) INFORMATION (Include statement of laboratory tests to be performed.)

) Field Comments
2225 LAB.
X-RAYED - 17½" SAMPLE

(34) Laboratory Comments

) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
BY-108	222S LABS	James Sickels JAMES SICKELS	8/21/95 0845	
) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
James Sickels JAMES SICKELS		C. E. Byrd C. E. Byrd	8/21/95 0845	
) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
C. E. Byrd C. E. Byrd		E. E. Dubes E. E. Dubes	8-21-95 0845	
) 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 ☐	☑ Yes ☐ No	☑ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Receiving of Sample Pink - Core Sampling, S6-85 Goldenrod - Tank Farm Operations, S4-43 BC-6000-309 (02/94)

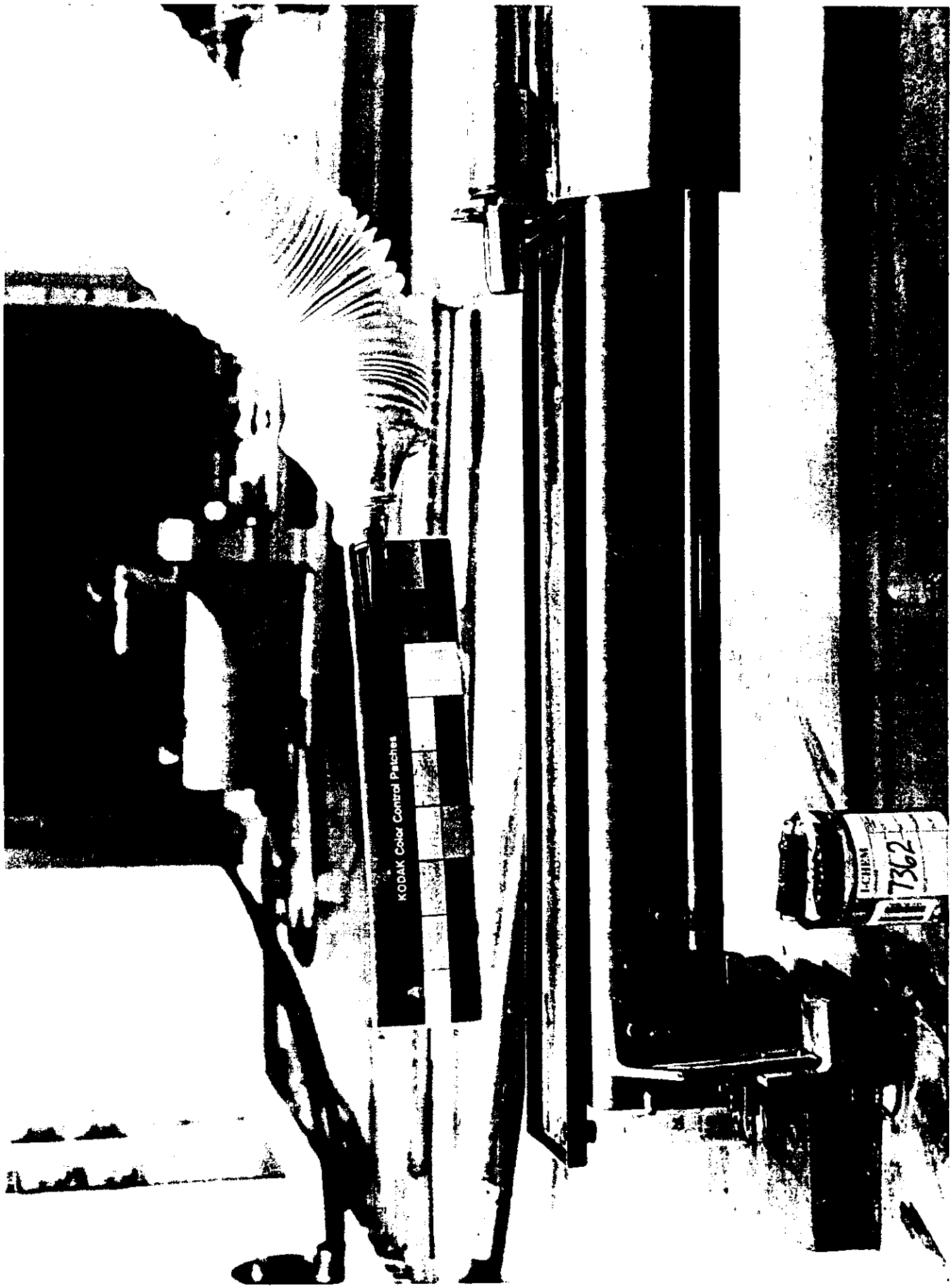
WHC-SD-WM-DP-145 REV. 1

PHOTOGRAPHS

THIS PAGE INTENTIONALLY
LEFT BLANK.

7/~/95

B4-108 Core 97 Field Blank

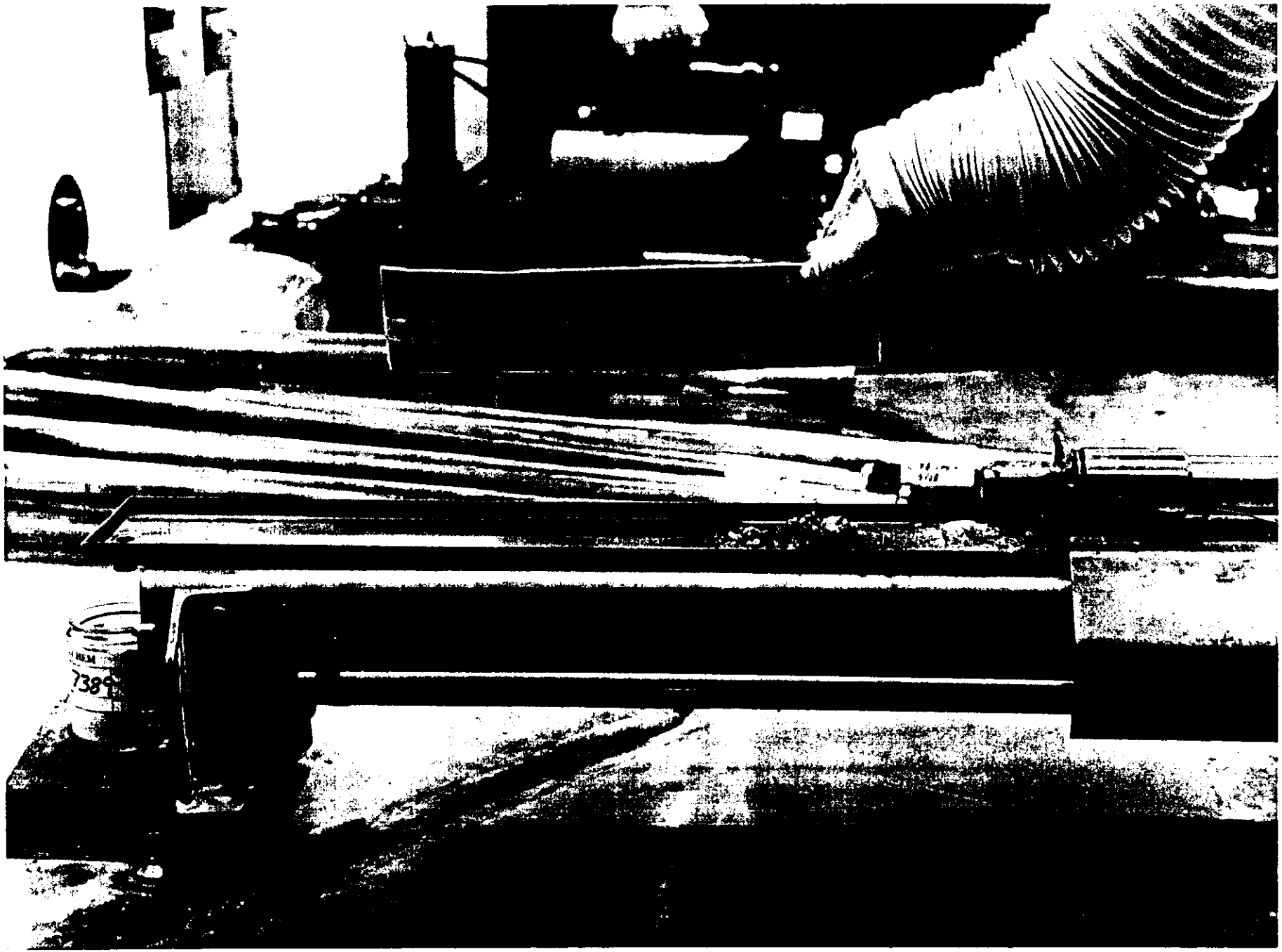


BEST COPY AVAILABLE

THIS PAGE INTENTIONALLY
LEFT BLANK.

BY-108 Core 98 ' ment #1

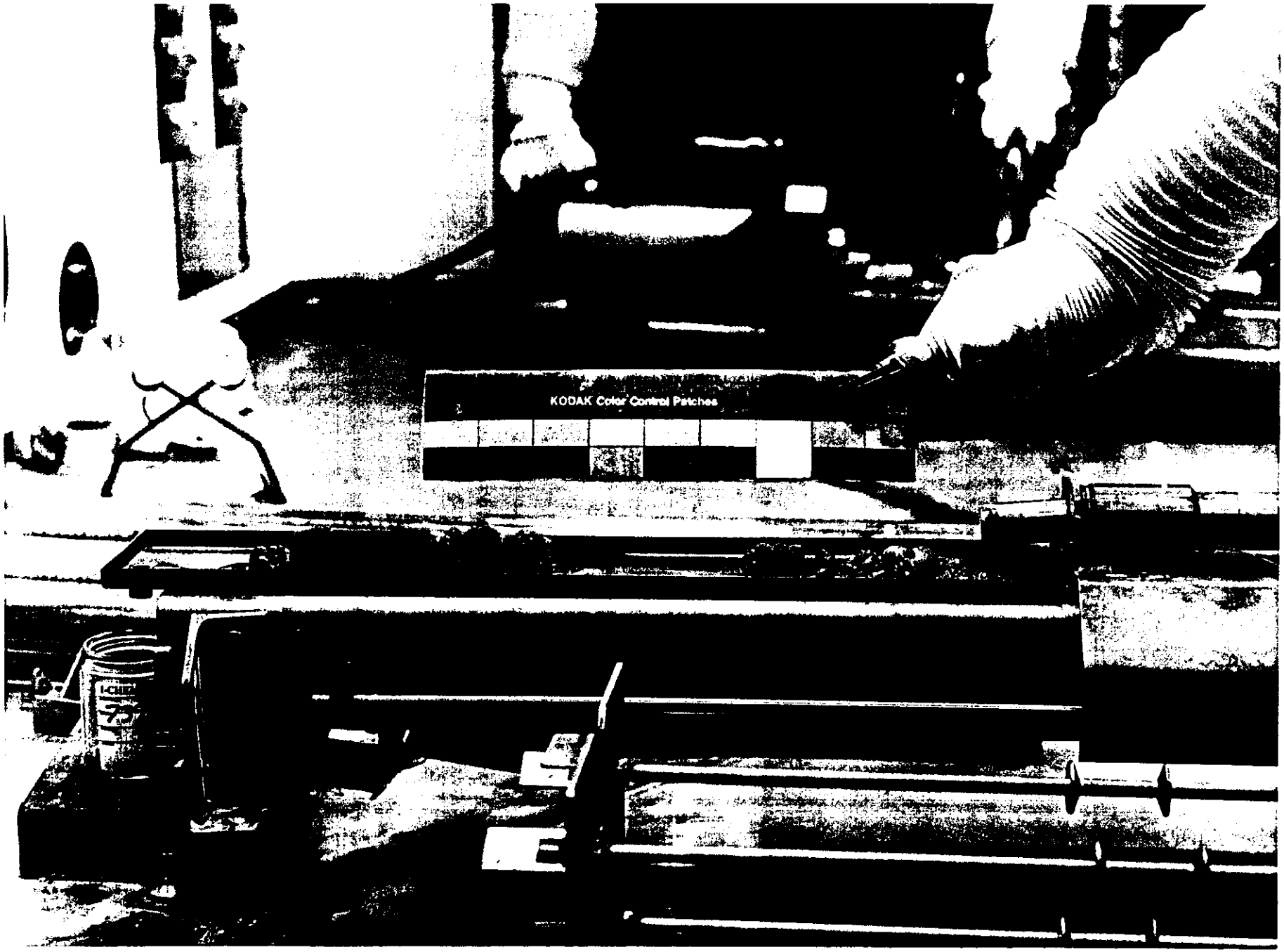
8, 95



THIS PAGE INTENTIONALLY
LEFT BLANK.

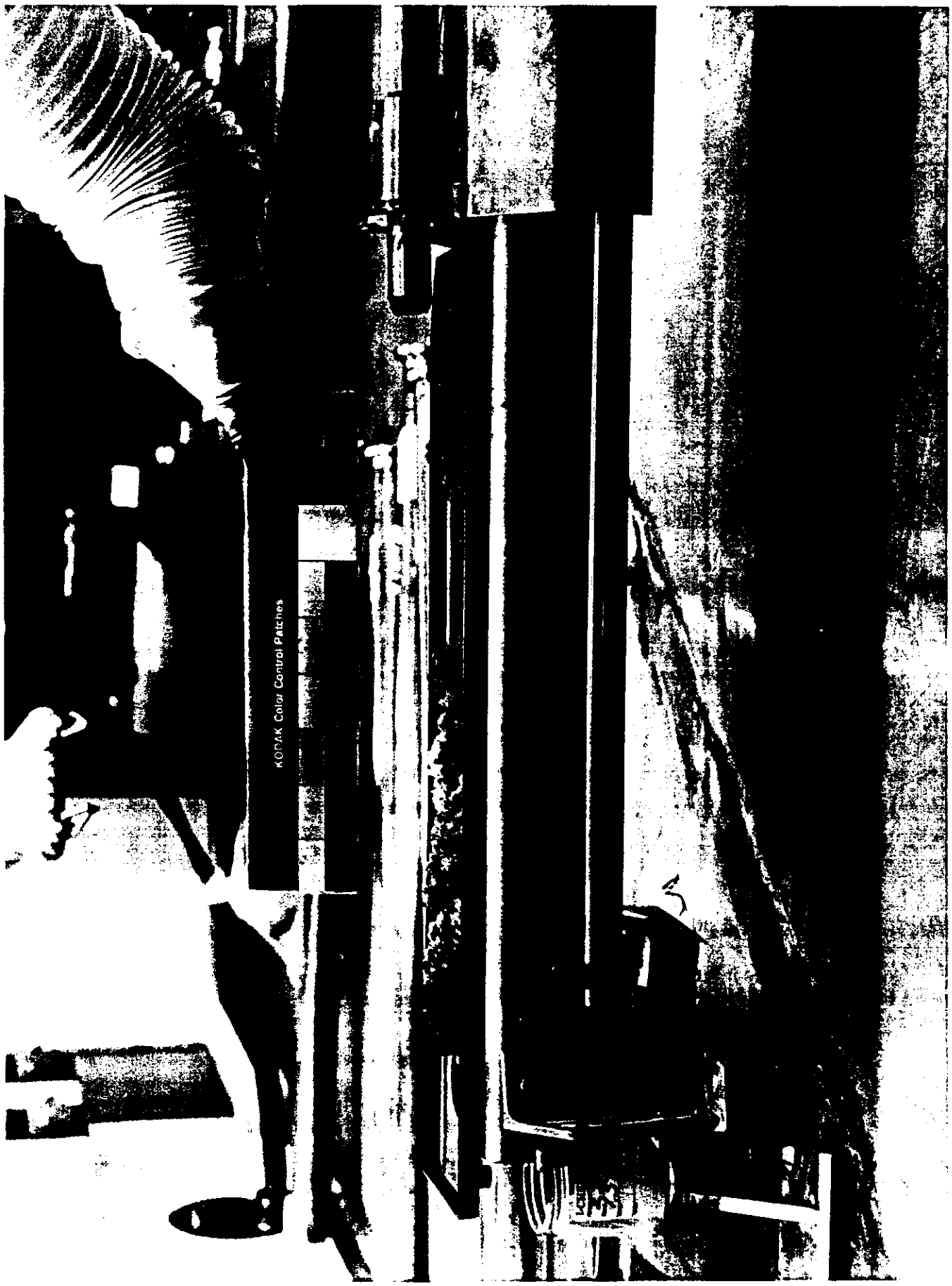
BY-108 Core 9E Segment #2

8/2



BEST COPY AVAILABLE

THIS PAGE INTENTIONALLY
LEFT BLANK.



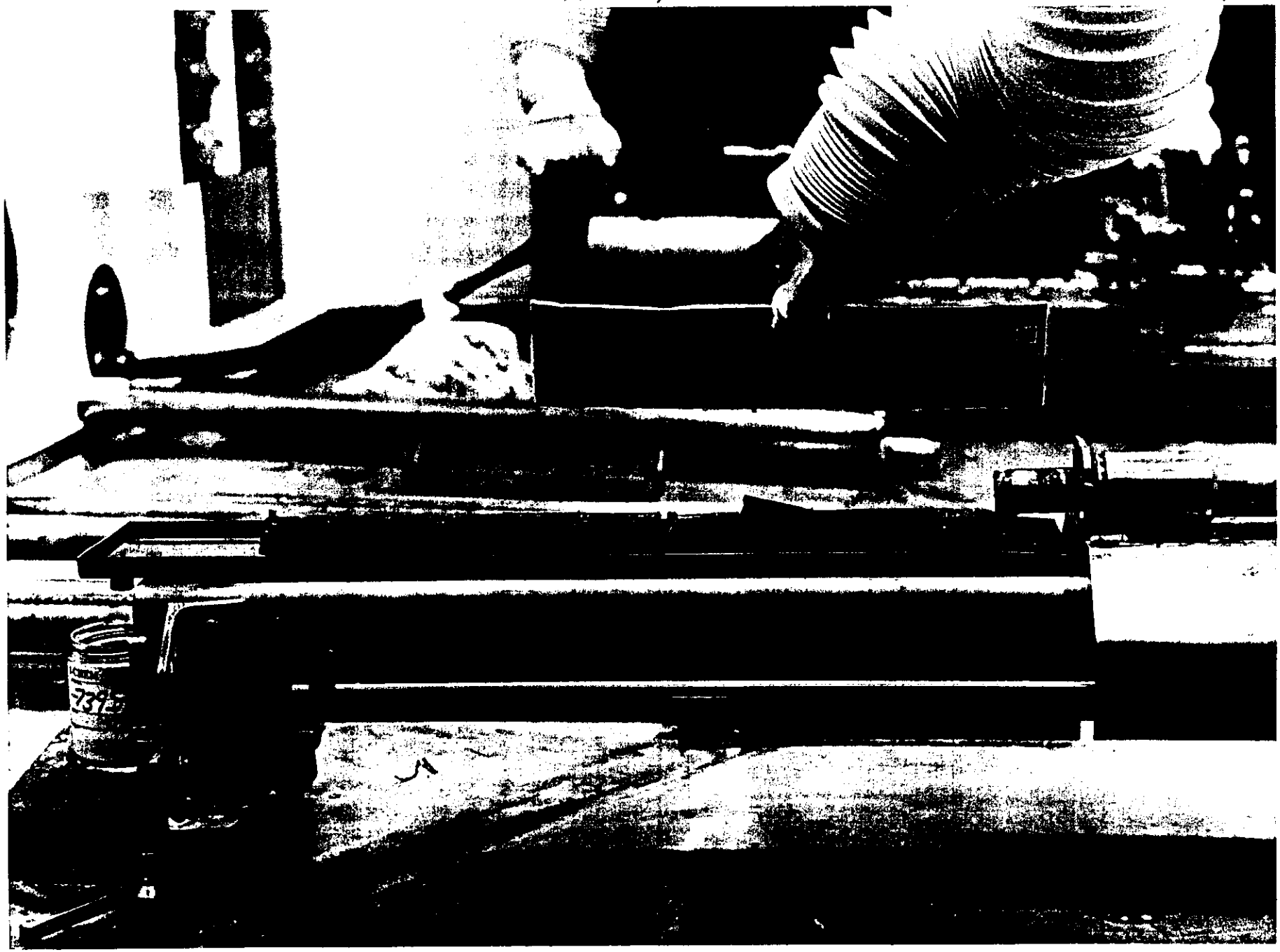
BY-108 Core 99 Segment #3

8, 75

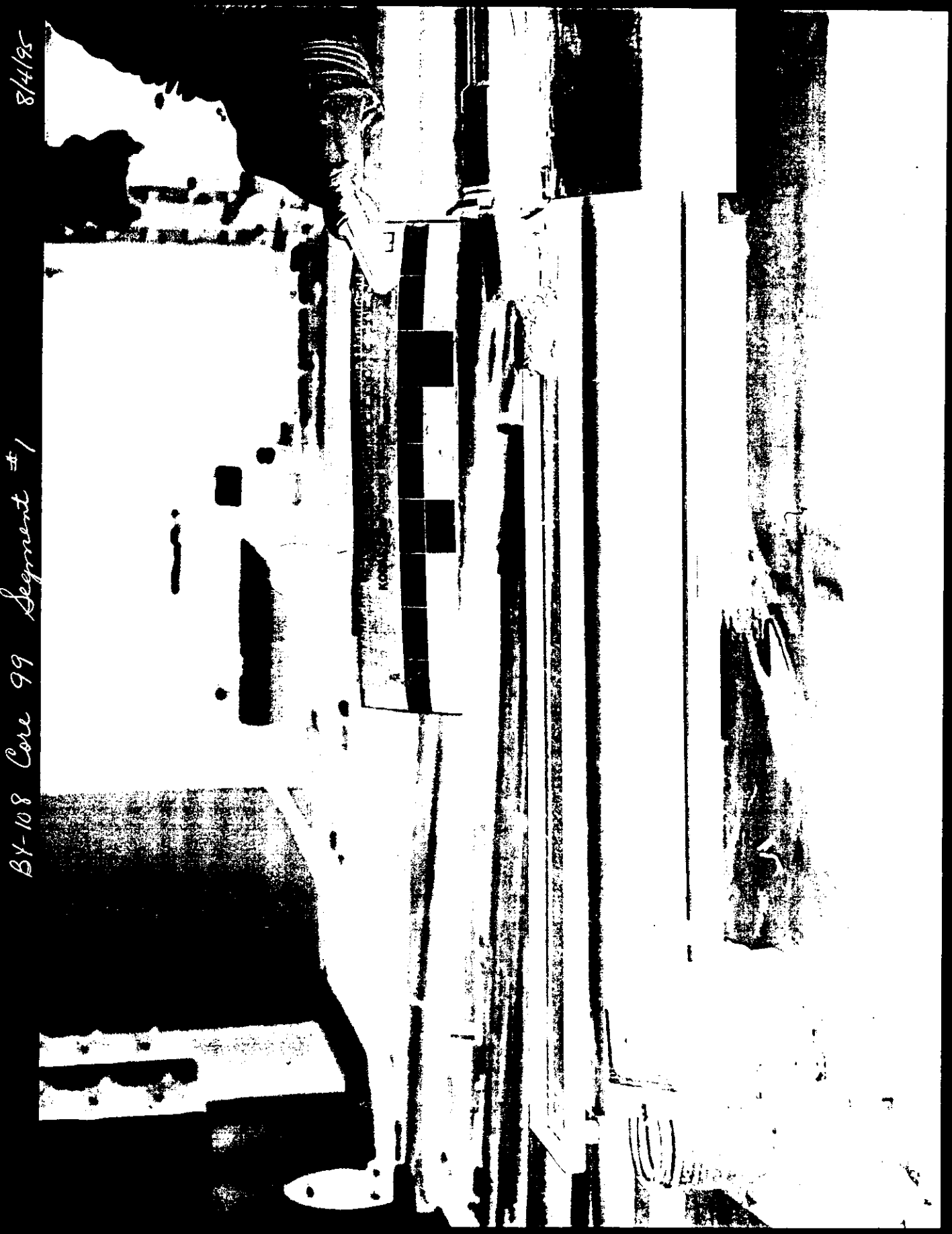
BEST COPY AVAILABLE

THIS PAGE INTENTIONALLY
LEFT BLANK.

B4-108 Core 98 segment #4 8/4/95

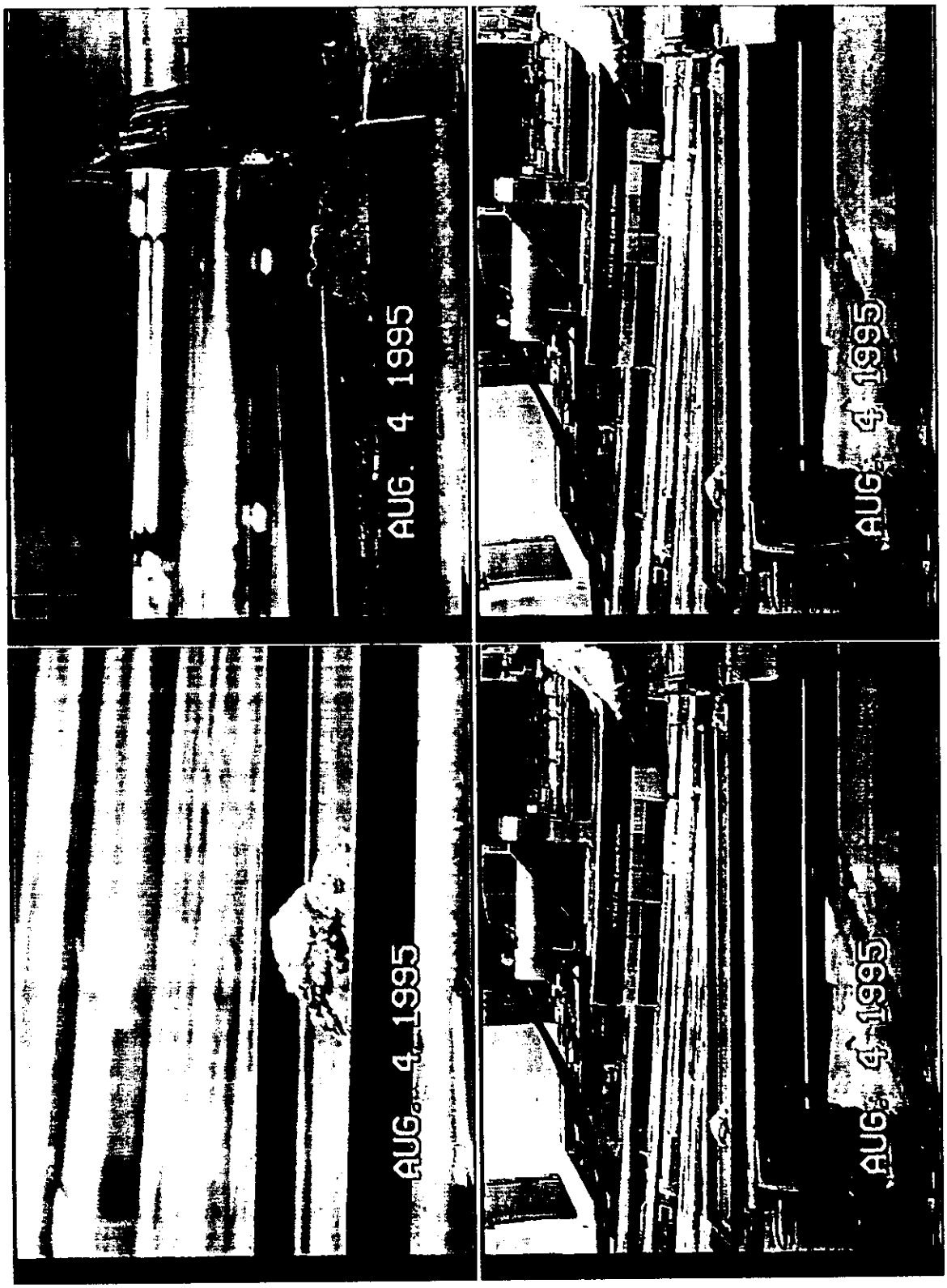


THIS PAGE INTENTIONALLY
LEFT BLANK.


BY-108 Core 99 Segment #1
8/4/95

THIS PAGE INTENTIONALLY
LEFT BLANK.

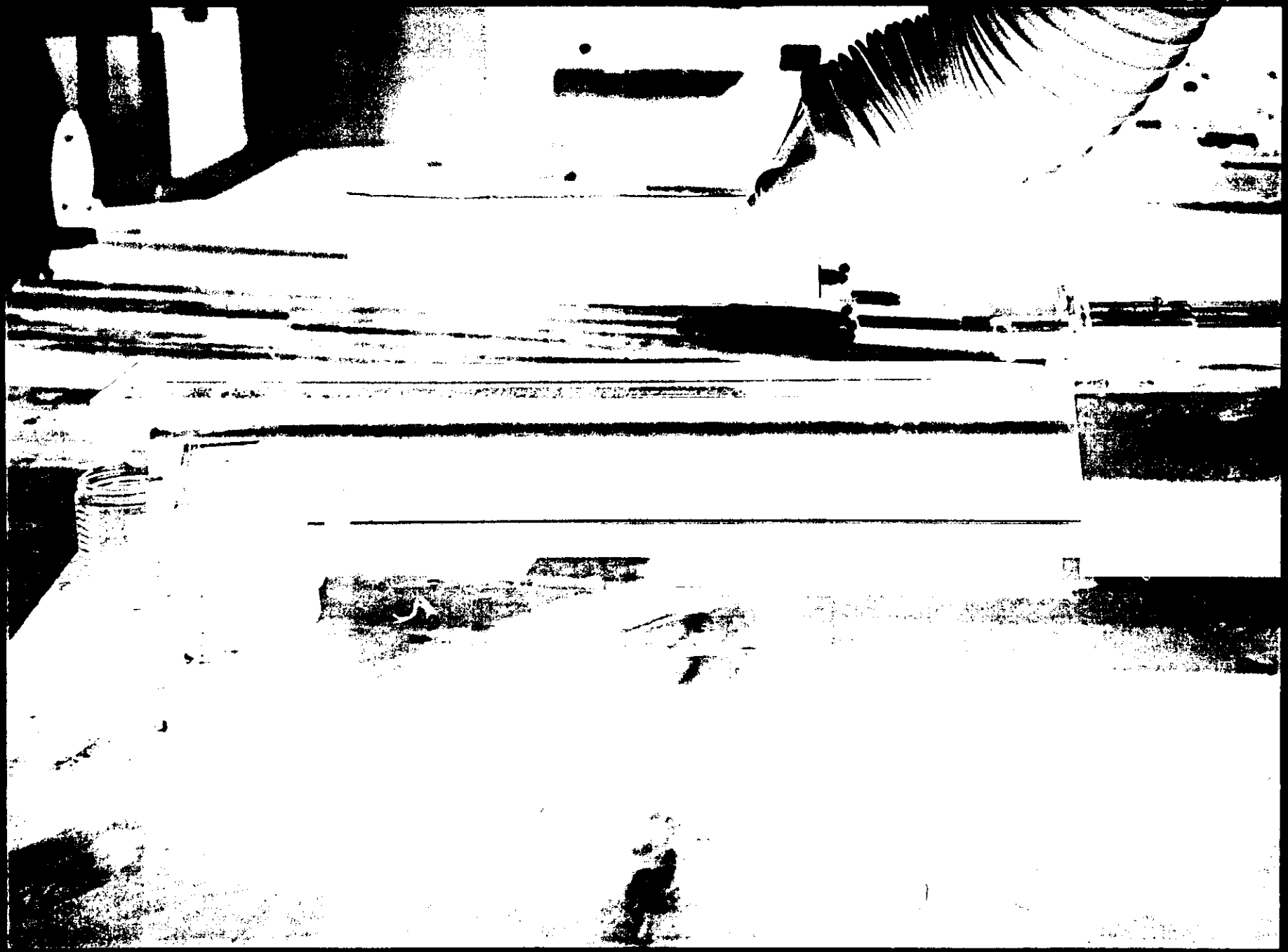
BY-108 Core 99 Seg #2



THIS PAGE INTENTIONALLY
LEFT BLANK.

BY-108 Core ~. Segment #3

8/4/95

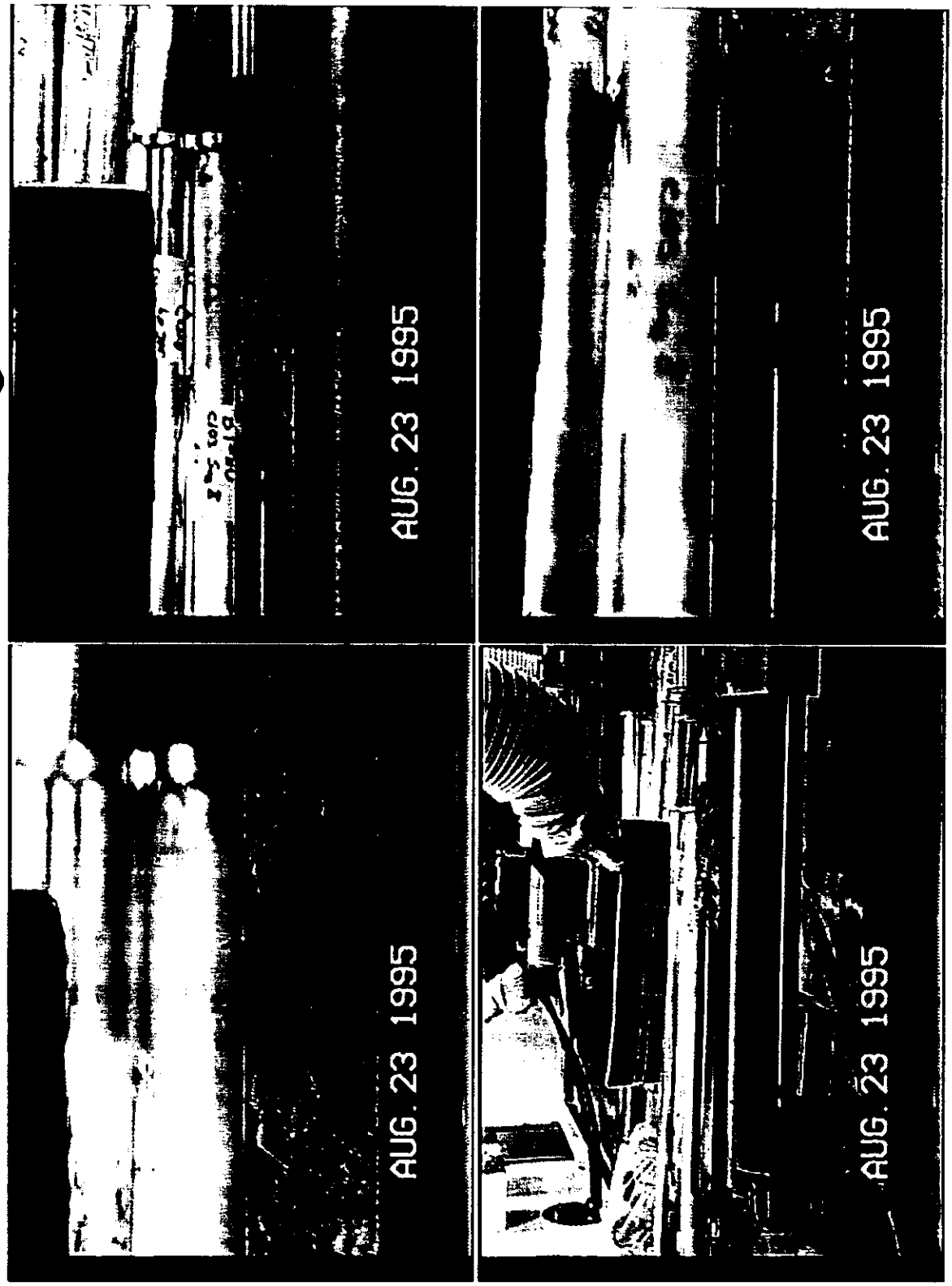


THIS PAGE INTENTIONALLY
LEFT BLANK.

KODAK Color Control Patches
BY-108 Core 99 segment #4
8/4/95

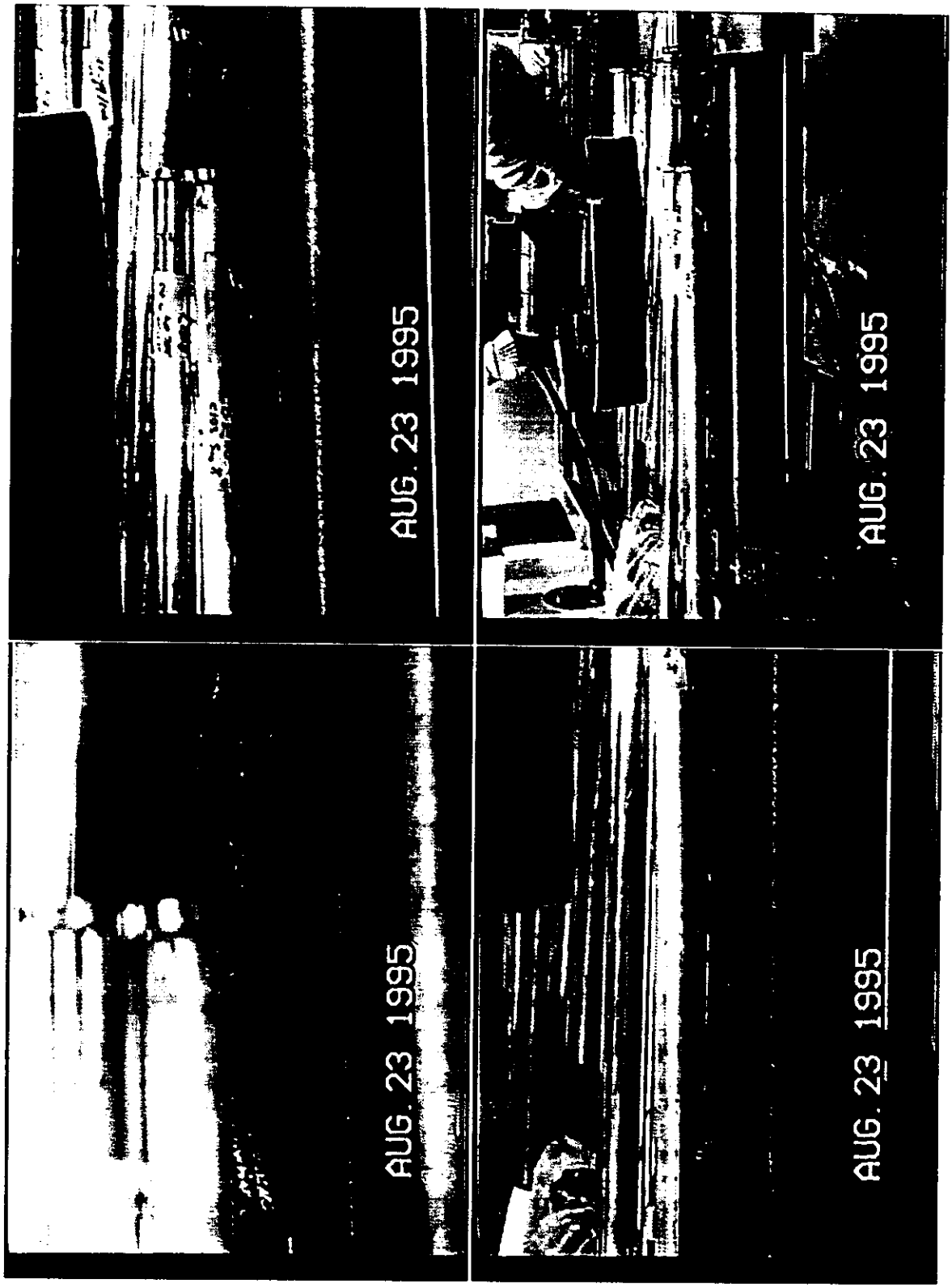
THIS PAGE INTENTIONALLY
LEFT BLANK.

BY-108 Core 104 Seg 1 Riser 7



THIS PAGE INTENTIONALLY
LEFT BLANK.

BY-108 Core 104 Seg 2 Riser 7

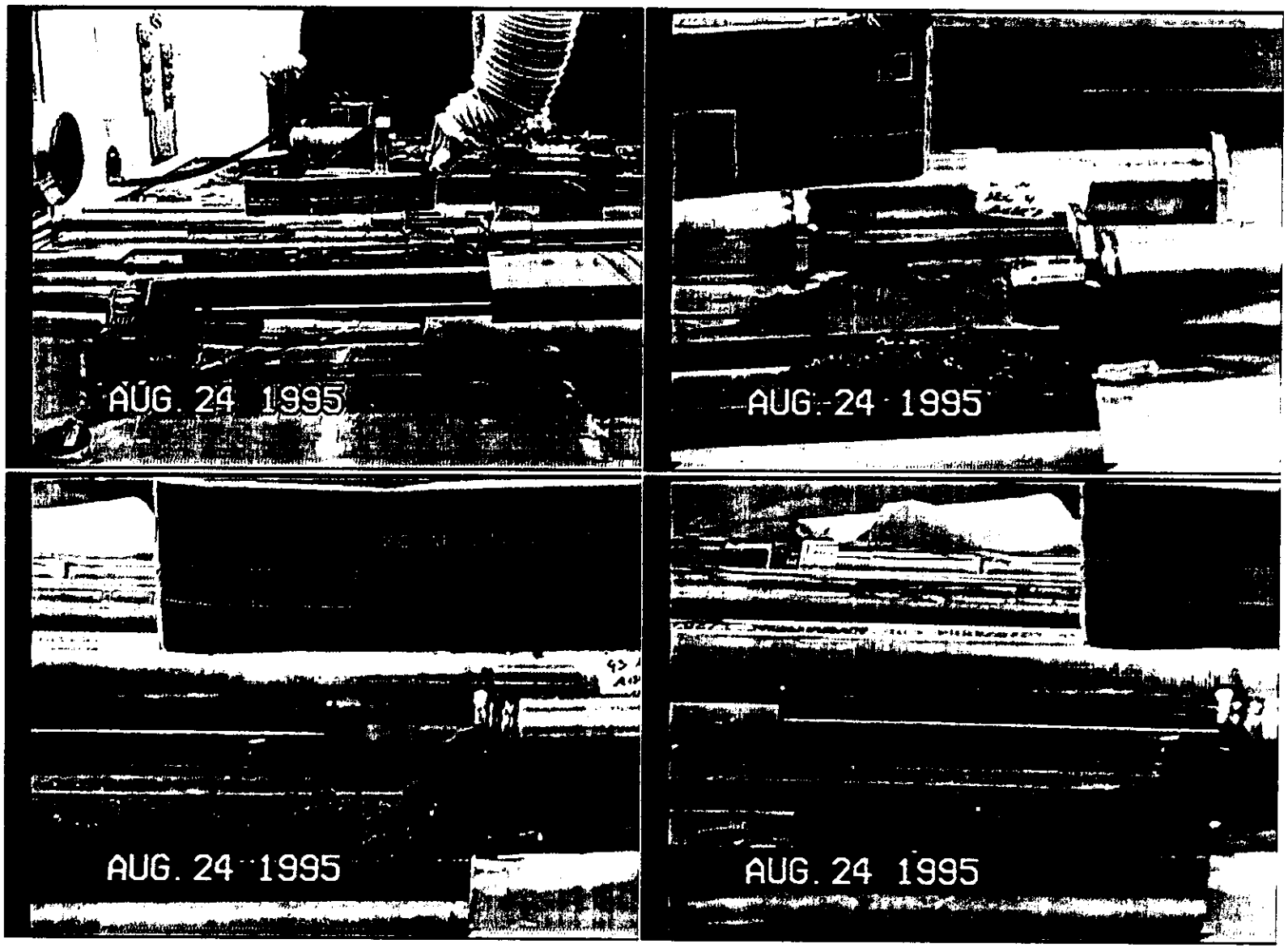


THIS PAGE INTENTIONALLY
LEFT BLANK.

By-108 Core 104 Seg 3 Riser 7

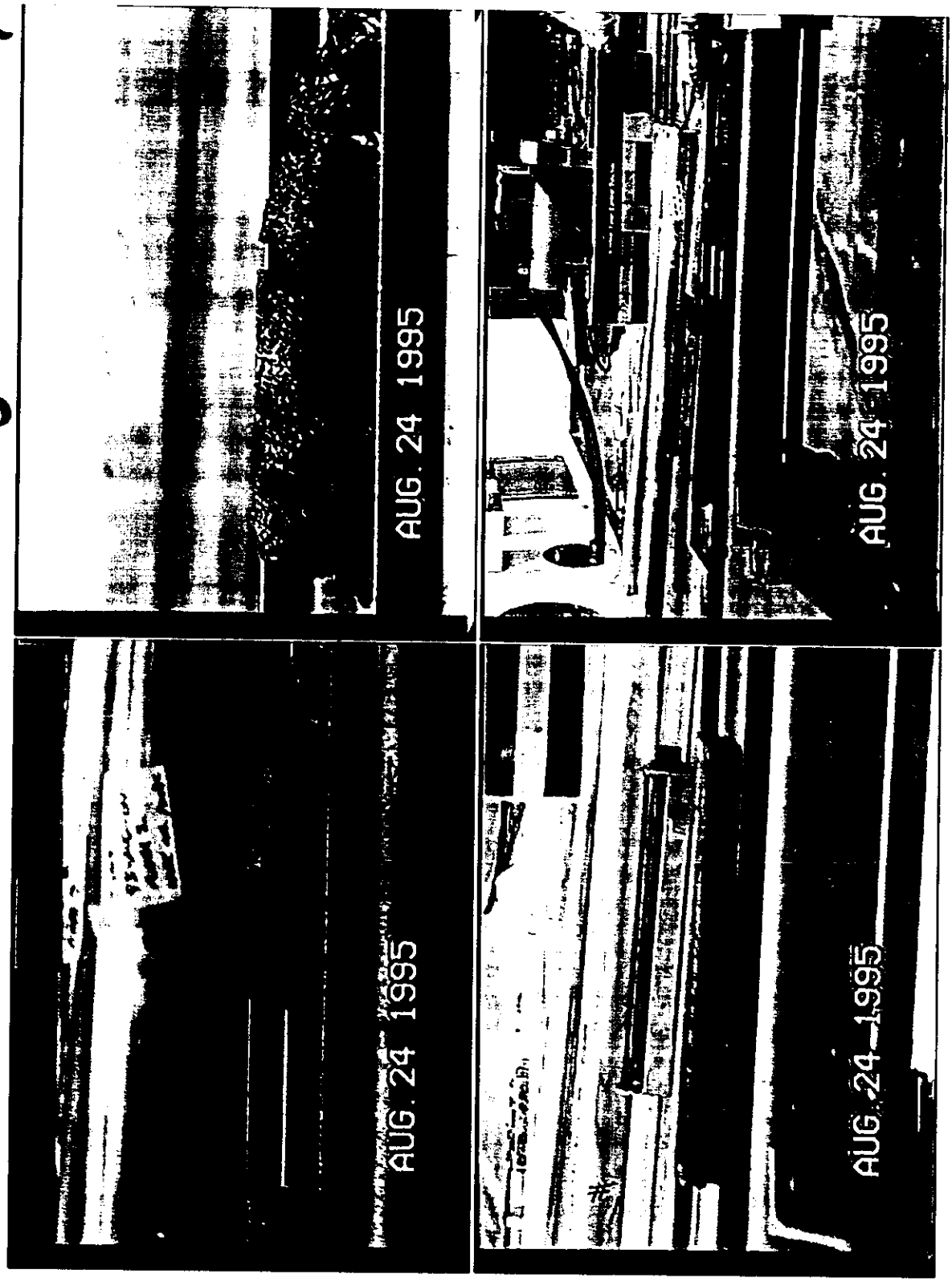
THIS PAGE INTENTIONALLY
LEFT BLANK.

By-108 Core 104 Seg 4 Riser 7



THIS PAGE INTENTIONALLY
LEFT BLANK.

BY-108 Core 104 Seg 5 Riser 7



THIS PAGE INTENTIONALLY
LEFT BLANK.

SAMPLE HANDLING

THIS PAGE INTENTIONALLY
LEFT BLANK.

LABCORE Data Entry Template for Worklist# 1926

Analyst: EC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C97 Segment #1 Riser 12A 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	499.83	N/A	
95000101	BY-108 (R)	3	SAMPLE	S95T001330	0		DLIQVOL1	SOLID	N/A	0		mL
95000101	BY-108 (R)	4	SAMPLE	S95T001330	0		DLIQWT01	SOLID	N/A	0		g
95000101	BY-108 (R)	5	SAMPLE	S95T001330	0		EST.G/ML	SOLID	N/A	0		g/mL
95000101	BY-108 (R)	6	SAMPLE	S95T001330	0		EXTRUD01	SOLID	N/A	Complete		
95000101	BY-108 (R)	7	SAMPLE	S95T001330	0		LLIQWT01	SOLID	N/A	0		g
95000101	BY-108 (R)	8	SAMPLE	S95T001330	0		NOTEBOOK	SOLID	N/A	N-1104		
95000101	BY-108 (R)	9	SAMPLE	S95T001330	0		SLDVOL01	SOLID	N/A	<20		mL
95000101	BY-108 (R)	10	SAMPLE	S95T001330	0		SLDWT-01	SOLID	N/A	18.9		g
95000101	BY-108 (R)	11	SAMPLE	S95T001330	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1926

EC 7-31-95 — Analyst Signature Date

EC 7-31-95 — Analyst Signature Date

Reviewed by [illegible] 8-1-95

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# 1927

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C97 Field Blank Riser 12A 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	499.85	N/A	
95000101	BY-108 (R)	3	SAMPLE	S95T001331	0		DLIQVOL1	LIQUID	N/A	250		mL
95000101	BY-108 (R)	4	SAMPLE	S95T001331	0		DLIQWT01	LIQUID	N/A	249.1		g
95000101	BY-108 (R)	5	SAMPLE	S95T001331	0		EST.G/ML	LIQUID	N/A	1		g/mL
95000101	BY-108 (R)	6	SAMPLE	S95T001331	0		EXTRUD01	LIQUID	N/A	complete		
95000101	BY-108 (R)	7	SAMPLE	S95T001331	0		LLIQWT01	LIQUID	N/A	0		g
95000101	BY-108 (R)	8	SAMPLE	S95T001331	0		NOTEBOOK	LIQUID	N/A	N-1104		
95000101	BY-108 (R)	9	SAMPLE	S95T001331	0		SLDVOL01	LIQUID	N/A	0		mL
95000101	BY-108 (R)	10	SAMPLE	S95T001331	0		SLDWT-01	LIQUID	N/A	0		g
95000101	BY-108 (R)	11	SAMPLE	S95T001331	0		ORGVOL01	LIQUID	N/A	0		mL

Final page for worklist # 1927

EC 7-31-95
Analyst Signature Date

EC 7-31-95
Analyst Signature Date

Reviewed by [illegible] 8-1-95

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# 1944

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C98 Segment # 1 Riser 12A 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	499.84	N/A	
95000104	BY-108 (R)	3	SAMPLE	S95T001357	0		DLIQVOL1	SOLID	N/A	170		mL
95000104	BY-108 (R)	4	SAMPLE	S95T001357	0		DLIQWT01	SOLID	N/A	229.4		g
95000104	BY-108 (R)	5	SAMPLE	S95T001357	0		EST.G/ML	SOLID	N/A	1.3		g/mL
95000104	BY-108 (R)	6	SAMPLE	S95T001357	0		EXTRUD01	SOLID	N/A	complete		
95000104	BY-108 (R)	7	SAMPLE	S95T001357	0		LLIQWT01	SOLID	N/A	0		g
95000104	BY-108 (R)	8	SAMPLE	S95T001357	0		NOTEBOOK	SOLID	N/A	N-1104		
95000104	BY-108 (R)	9	SAMPLE	S95T001357	0		SLDVOL01	SOLID	N/A	80		mL
95000104	BY-108 (R)	10	SAMPLE	S95T001357	0		SLDWT-01	SOLID	N/A	137.4		g
95000104	BY-108 (R)	11	SAMPLE	S95T001357	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1944

EC 8-4-95
Analyst Signature **Date**

EC 8-4-95
Analyst Signature **Date**

Data Entry Comments: Reviewed by RRZ 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# 1945

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C98 Segment #2 Riser 12A 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	499.85	N/A	
95000104	BY-108 (R)	3	SAMPLE	S95T001358	0		DLIQVOL1	SOLID	N/A	100		mL
95000104	BY-108 (R)	4	SAMPLE	S95T001358	0		DLIQWT01	SOLID	N/A	138.7		g
95000104	BY-108 (R)	5	SAMPLE	S95T001358	0		EST.G/ML	SOLID	N/A	1.4		g/mL
95000104	BY-108 (R)	6	SAMPLE	S95T001358	0		EXTRUD01	SOLID	N/A	complete		
95000104	BY-108 (R)	7	SAMPLE	S95T001358	0		LLIQWT01	SOLID	N/A	0		g
95000104	BY-108 (R)	8	SAMPLE	S95T001358	0		NOTEBOOK	SOLID	N/A	N-1104		
95000104	BY-108 (R)	9	SAMPLE	S95T001358	0		SLDVOL01	SOLID	N/A	~~270~~ 270		mL
95000104	BY-108 (R)	10	SAMPLE	S95T001358	0		SLDWT-01	SOLID	N/A	277.3		g
95000104	BY-108 (R)	11	SAMPLE	S95T001358	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1945

Analyst Signature Date 8-3-95

Analyst Signature Date 8-3-95

Data Entry Comments: Reviewed by RK Zulk 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# 1946

Analyst: CC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C98 Segment #3 Riser 12A 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	499.84	N/A	
95000104	BY-108 (R)	3	SAMPLE	S95T001359	0		DLIQVOL1	SOLID	N/A	60		mL
95000104	BY-108 (R)	4	SAMPLE	S95T001359	0		DLIQWT01	SOLID	N/A	77.0		g
95000104	BY-108 (R)	5	SAMPLE	S95T001359	0		EST.G/ML	SOLID	N/A	1.3		g/mL
95000104	BY-108 (R)	6	SAMPLE	S95T001359	0		EXTRUD01	SOLID	N/A	complete		
95000104	BY-108 (R)	7	SAMPLE	S95T001359	0		LLIQWT01	SOLID	N/A	0		g
95000104	BY-108 (R)	8	SAMPLE	S95T001359	0		NOTEBOOK	SOLID	N/A	N-1104		
95000104	BY-108 (R)	9	SAMPLE	S95T001359	0		SLDVOL01	SOLID	N/A	190		mL
95000104	BY-108 (R)	10	SAMPLE	S95T001359	0		SLDWT-01	SOLID	N/A	329.5		g
95000104	BY-108 (R)	11	SAMPLE	S95T001359	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1946

Analyst Signature Date 8-4-95

Analyst Signature Date 8-4-95

Reviewed by RK Fuller 8/7/95

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# 1947

Analyst: EC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A7

Worklist Comment: BY-108 C98 Segment #4 Riser 12A Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.99g	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.84g	N/A	
95000104	BY-108 (R)	3	SAMPLE	S95T001360	0		DLIQVOL1	SOLID	N/A	0		mL
95000104	BY-108 (R)	4	SAMPLE	S95T001360	0		DLIQWT01	SOLID	N/A	0		g
95000104	BY-108 (R)	5	SAMPLE	S95T001360	0		EST.G/ML	SOLID	N/A	0		g/mL
95000104	BY-108 (R)	6	SAMPLE	S95T001360	0		EXTRUD01	SOLID	N/A	complete		
95000104	BY-108 (R)	7	SAMPLE	S95T001360	0		LLIQWT01	SOLID	N/A	0		g
95000104	BY-108 (R)	8	SAMPLE	S95T001360	0		NOTEBOOK	SOLID	N/A	N-1104		
95000104	BY-108 (R)	9	SAMPLE	S95T001360	0		SLDVOL01	SOLID	N/A	310		mL
95000104	BY-108 (R)	10	SAMPLE	S95T001360	0		SLDWT-01	SOLID	N/A	490.0		g
95000104	BY-108 (R)	11	SAMPLE	S95T001360	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1947

EC 8-4-95
Analyst Signature **Date**

EC 8-4-95
Analyst Signature **Date**

Reviewed by RK Fuller 8/7/95

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# 1948

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C99 Segment #1 Riser 12A 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	499.85	N/A	
95000105	BY-108 (R)	3	SAMPLE	S95T001361	0		DLIQVOL1	SOLID	N/A	0		mL
95000105	BY-108 (R)	4	SAMPLE	S95T001361	0		DLIQWT01	SOLID	N/A	0		g
95000105	BY-108 (R)	5	SAMPLE	S95T001361	0		EST.G/ML	SOLID	N/A	0		g/mL
95000105	BY-108 (R)	6	SAMPLE	S95T001361	0		EXTRUD01	SOLID	N/A	Complete		
95000105	BY-108 (R)	7	SAMPLE	S95T001361	0		LLIQWT01	SOLID	N/A	0		g
95000105	BY-108 (R)	8	SAMPLE	S95T001361	0		NOTEBOOK	SOLID	N/A	N-1104		
95000105	BY-108 (R)	9	SAMPLE	S95T001361	0		SLDVOL01	SOLID	N/A	30		mL
95000105	BY-108 (R)	10	SAMPLE	S95T001361	0		SLDWT-01	SOLID	N/A	56.4		g
95000105	BY-108 (R)	11	SAMPLE	S95T001361	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1948

EC 8-4-95
Analyst Signature **Date**

EC 8-4-95
Analyst Signature **Date**

Reviewed by RKFuller 8/7/95

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# 1949

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A7

Worklist Comment: BY-108 C99 Segment #2 Riser 12A 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	499.85	N/A	
95000105	BY-108 (R)	3	SAMPLE	S95T001362	0		DLIQVOL1	SOLID	N/A	230		mL
95000105	BY-108 (R)	4	SAMPLE	S95T001362	0		DLIQWT01	SOLID	N/A	298.0		g
95000105	BY-108 (R)	5	SAMPLE	S95T001362	0		EST.G/ML	SOLID	N/A	1.3		g/mL
95000105	BY-108 (R)	6	SAMPLE	S95T001362	0		EXTRUD01	SOLID	N/A	complete		
95000105	BY-108 (R)	7	SAMPLE	S95T001362	0		LLIQWT01	SOLID	N/A	0		g
95000105	BY-108 (R)	8	SAMPLE	S95T001362	0		NOTEBOOK	SOLID	N/A	N-1104		
95000105	BY-108 (R)	9	SAMPLE	S95T001362	0		SLDVOL01	SOLID	N/A	20		mL
95000105	BY-108 (R)	10	SAMPLE	S95T001362	0		SLDWT-01	SOLID	N/A	87.0		g
95000105	BY-108 (R)	11	SAMPLE	S95T001362	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1949

EC 8-7-95
Analyst Signature **Date**

EC 8-7-95
Analyst Signature **Date**

Reviewed by RK Fuller 8/7/95

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# 1950

Analyst: EC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C99 Segment #3 Riser 12A 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	499.84	N/A	
95000105	BY-108 (R)	3	SAMPLE	S95T001363	0		DLIQVOL1	SOLID	N/A	25		mL
95000105	BY-108 (R)	4	SAMPLE	S95T001363	0		DLIQWT01	SOLID	N/A	66.6		g
95000105	BY-108 (R)	5	SAMPLE	S95T001363	0		EST.G/ML	SOLID	N/A	2.6		g/mL
95000105	BY-108 (R)	6	SAMPLE	S95T001363	0		EXTRUD01	SOLID	N/A	complete		
95000105	BY-108 (R)	7	SAMPLE	S95T001363	0		LLIQWT01	SOLID	N/A	0		g
95000105	BY-108 (R)	8	SAMPLE	S95T001363	0		NOTEBOOK	SOLID	N/A	N-1104		
95000105	BY-108 (R)	9	SAMPLE	S95T001363	0		SLDVOL01	SOLID	N/A	10		mL
95000105	BY-108 (R)	10	SAMPLE	S95T001363	0		SLDWT-01	SOLID	N/A	22.4		g
95000105	BY-108 (R)	11	SAMPLE	S95T001363	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1950

[signature] 8-7-95
Analyst Signature **Date**

[signature] 8-7-95
Analyst Signature **Date**

Reviewed by RK Fuller 8/7/95

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# 1964

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C99 Segment #4 Riser 12A 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	499.84	N/A	
95000105	BY-108 (R)	3	SAMPLE	S95T001383	0		DLIQVOL1	SOLID	N/A	0		mL
95000105	BY-108 (R)	4	SAMPLE	S95T001383	0		DLIQWT01	SOLID	N/A	0		g
95000105	BY-108 (R)	5	SAMPLE	S95T001383	0		EST.G/ML	SOLID	N/A	0		g/mL
95000105	BY-108 (R)	6	SAMPLE	S95T001383	0		EXTRUD01	SOLID	N/A	complete		
95000105	BY-108 (R)	7	SAMPLE	S95T001383	0		LLIQWT01	SOLID	N/A	0		g
95000105	BY-108 (R)	8	SAMPLE	S95T001383	0		NOTEBOOK	SOLID	N/A	N-1104		
95000105	BY-108 (R)	9	SAMPLE	S95T001383	0		SLDVOL01	SOLID	N/A	300		mL
95000105	BY-108 (R)	10	SAMPLE	S95T001383	0		SLDWT-01	SOLID	N/A	475.9		g
95000105	BY-108 (R)	11	SAMPLE	S95T001383	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1964

[signature] 8-7-95
Analyst Signature **Date**

[signature] 8-7-95
Analyst Signature **Date**

Reviewed by RK Zeller 8/7/95

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# 1971

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C100 Segment #1 Riser 7 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	~~19.99g~~ 20.00 EC 8-11-95	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.90	N/A	
95000107	BY-108 (R)	3	SAMPLE	S95T001388	0		DLIQVOL1	SOLID	N/A	0		mL
95000107	BY-108 (R)	4	SAMPLE	S95T001388	0		DLIQWT01	SOLID	N/A	0		g
95000107	BY-108 (R)	5	SAMPLE	S95T001388	0		EST.G/ML	SOLID	N/A	0		g/mL
95000107	BY-108 (R)	6	SAMPLE	S95T001388	0		EXTRUD01	SOLID	N/A	complete		
95000107	BY-108 (R)	7	SAMPLE	S95T001388	0		LLIQWT01	SOLID	N/A	0		g
95000107	BY-108 (R)	8	SAMPLE	S95T001388	0		NOTEBOOK	SOLID	N/A	N-1104		
95000107	BY-108 (R)	9	SAMPLE	S95T001388	0		SLDVOL01	SOLID	N/A	0		mL
95000107	BY-108 (R)	10	SAMPLE	S95T001388	0		SLDWT-01	SOLID	N/A	0		g
95000107	BY-108 (R)	11	SAMPLE	S95T001388	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1971

EC 8-11-95
Analyst Signature Date

EC 8-11-95
Analyst Signature Date

Reviewed by Arthur B. Bay 8-11-95

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.

IC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2078

Analyst: SC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C102 SEGMENT 1 RISER 7 EXTRUSION

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.78	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.71	N/A	
95000117	BY-108 (R)	3	SAMPLE	S95T001534	0		DLIQVOL1	SOLID	N/A	0		mL
95000117	BY-108 (R)	4	SAMPLE	S95T001534	0		DLIQWT01	SOLID	N/A	0		g
95000117	BY-108 (R)	5	SAMPLE	S95T001534	0		EST.G/ML	SOLID	N/A	0		g/mL
95000117	BY-108 (R)	6	SAMPLE	S95T001534	0		EXTRUD01	SOLID	N/A	Complete		
95000117	BY-108 (R)	7	SAMPLE	S95T001534	0		LLIQWT01	SOLID	N/A	0		g
95000117	BY-108 (R)	8	SAMPLE	S95T001534	0		NOTEBOOK	SOLID	N/A	N-1104		
95000117	BY-108 (R)	9	SAMPLE	S95T001534	0		SLDVOL01	SOLID	N/A	NA		mL
95000117	BY-108 (R)	10	SAMPLE	S95T001534	0		SLDWT-01	SOLID	N/A	60.3		g
95000117	BY-108 (R)	11	SAMPLE	S95T001534	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 2078

[signature] 8-24-95
Analyst Signature **Date**

[signature] 8-24-95
Analyst Signature **Date**

Reviewed by [signature] 8/25/95

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# 2079

Analyst: EC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C104 SEGMENT #1 RISER 7 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	499.71	N/A	
95000118	BY-108 (R)	3 SAMPLE	S95T001535	0		DLIQVOL1	SOLID	N/A	0		mL
95000118	BY-108 (R)	4 SAMPLE	S95T001535	0		DLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	5 SAMPLE	S95T001535	0		EST.G/ML	SOLID	N/A	0		g/mL
95000118	BY-108 (R)	6 SAMPLE	S95T001535	0		EXTRUD01	SOLID	N/A	complete		
95000118	BY-108 (R)	7 SAMPLE	S95T001535	0		LLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	8 SAMPLE	S95T001535	0		NOTEBOOK	SOLID	N/A	N-104		
95000118	BY-108 (R)	9 SAMPLE	S95T001535	0		SLDVOL01	SOLID	N/A	N/A		mL
95000118	BY-108 (R)	10 SAMPLE	S95T001535	0		SLDWT-01	SOLID	N/A	131.3		g
95000118	BY-108 (R)	11 SAMPLE	S95T001535	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 2079

EC 8-24-95
Analyst Signature **Date**

EC 8-24-95
Analyst Signature **Date**

Reviewed by [illegible] 8/25/95

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# 2080

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C104 SEGMENT #2 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01				EXTRUD01	SOLID	20	19.98	N/A	
		2 INSTCHK02				EXTRUD01	SOLID	500	499.70	N/A	
95000118	BY-108 (R)	3 SAMPLE	S95T001536	0		DLIQVOL1	SOLID	N/A	0		mL
95000118	BY-108 (R)	4 SAMPLE	S95T001536	0		DLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	5 SAMPLE	S95T001536	0		EST.G/ML	SOLID	N/A	0		g/mL
95000118	BY-108 (R)	6 SAMPLE	S95T001536	0		EXTRUD01	SOLID	N/A	complete		
95000118	BY-108 (R)	7 SAMPLE	S95T001536	0		LLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	8 SAMPLE	S95T001536	0		NOTEBOOK	SOLID	N/A	N-1104		
95000118	BY-108 (R)	9 SAMPLE	S95T001536	0		SLDVOL01	SOLID	N/A	NA		mL
95000118	BY-108 (R)	10 SAMPLE	S95T001536	0		SLDWT-01	SOLID	N/A	383.5		g
95000118	BY-108 (R)	11 SAMPLE	S95T001536	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 2080

EC 8-24-95
Analyst Signature Date

EC 8-24-95
Analyst Signature Date

Reviewed by [illegible] 8/25/95

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# 2086

Analyst: _____ **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A.7

Worklist Comment: BY-108 C104 SEGMENT #3 RISER 7 EXTRUSION

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.98	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.70	N/A	
95000118	BY-108 (R)	3	SAMPLE	S95T001537	0		DLIQVOL1	SOLID	N/A	0		mL
95000118	BY-108 (R)	4	SAMPLE	S95T001537	0		DLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	5	SAMPLE	S95T001537	0		EST.G/ML	SOLID	N/A	0		g/mL
95000118	BY-108 (R)	6	SAMPLE	S95T001537	0		EXTRUD01	SOLID	N/A	Complete		
95000118	BY-108 (R)	7	SAMPLE	S95T001537	0		LLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	8	SAMPLE	S95T001537	0		NOTEBOOK	SOLID	N/A	N-1104		
95000118	BY-108 (R)	9	SAMPLE	S95T001537	0		SLDVOL01	SOLID	N/A	NA		mL
95000118	BY-108 (R)	10	SAMPLE	S95T001537	0		SLDWT-01	SOLID	N/A	288.8		g
95000118	BY-108 (R)	11	SAMPLE	S95T001537	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 2086

Analyst Signature 8-28-95 Date

Analyst Signature 8-28-95 Date

Reviewed by Arlen B. Berry 8-28-95

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# 2087

Analyst: _____ **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C104 SEGMENT #4 RISER 7 EXTRUSION

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.98	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.70	N/A	
95000118	BY-108 (R)	3	SAMPLE	S95T001538	0		DLIQVOL1	SOLID	N/A	0		mL
95000118	BY-108 (R)	4	SAMPLE	S95T001538	0		DLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	5	SAMPLE	S95T001538	0		EST.G/ML	SOLID	N/A	0		g/mL
95000118	BY-108 (R)	6	SAMPLE	S95T001538	0		EXTRUD01	SOLID	N/A	Complete		
95000118	BY-108 (R)	7	SAMPLE	S95T001538	0		LLIQWT01	SOLID	N/A	<10		g
95000118	BY-108 (R)	8	SAMPLE	S95T001538	0		NOTEBOOK	SOLID	N/A	N-1104		
95000118	BY-108 (R)	9	SAMPLE	S95T001538	0		SLDVOL01	SOLID	N/A	NA		mL
95000118	BY-108 (R)	10	SAMPLE	S95T001538	0		SLDWT-01	SOLID	N/A	318.3		g
95000118	BY-108 (R)	11	SAMPLE	S95T001538	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 2087

[signature] 8-28-95
Analyst Signature **Date**

[signature] 8-28-95
Analyst Signature **Date**

Reviewed by [signature] 8-28-95

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# 2088

Analyst: EC **Instrument:** BA000 _____ **Book #** NA

Method: LO-160-103 Rev/Mod A7

Worklist Comment: BY-108 C104 SEGMENT #5 RISER 7 EXTRUSION

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.98	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.70	N/A	
95000118	BY-108 (R)	3	SAMPLE	S95T001539	0		DLIQVOL1	SOLID	N/A	0		mL
95000118	BY-108 (R)	4	SAMPLE	S95T001539	0		DLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	5	SAMPLE	S95T001539	0		EST.G/ML	SOLID	N/A	0		g/mL
95000118	BY-108 (R)	6	SAMPLE	S95T001539	0		EXTRUD01	SOLID	N/A	complete		
95000118	BY-108 (R)	7	SAMPLE	S95T001539	0		LLIQWT01	SOLID	N/A	0		g
95000118	BY-108 (R)	8	SAMPLE	S95T001539	0		NOTEBOOK	SOLID	N/A	N-1104		
95000118	BY-108 (R)	9	SAMPLE	S95T001539	0		SLDVOL01	SOLID	N/A	NA		mL
95000118	BY-108 (R)	10	SAMPLE	S95T001539	0		SLDWT-01	SOLID	N/A	422.7		g
95000118	BY-108 (R)	11	SAMPLE	S95T001539	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 2088

EC 8-28-95
Analyst Signature **Date**

EC 8-28-95
Analyst Signature **Date**

Reviewed by Arthur B. Bailey 8-28-95

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.

THIS PAGE INTENTIONALLY
LEFT BLANK.

SAMPLE PREPARATIONS

THIS PAGE INTENTIONALLY
LEFT BLANK.

LABCORE Data Entry Template for Worklist# 1973

Analyst: ABC **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C-98 S-1 Homogenization & Drainable Liquid

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.98	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.95	N/A	
95000104	BY-108 (R)	3	SAMPLE	S95T001372	0	7389	SUBSMPL1	LIQUID	N/A	Complete		mL
95000104	BY-108 (R)	4	SAMPLE	S95T001373	0	7302	SAMPAMT1	LIQUID	N/A	29.2		g
95000104	BY-108 (R)	5	SAMPLE	S95T001374	0	X 7436	ARCHIV01	LIQUID	N/A	59.0		g
95000104	BY-108 (R)	6	SAMPLE	S95T001375	0	7383	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	7	SAMPLE	S95T001390	0	7301	SAMPAMT1	SOLID	N/A	11.8		g
95000104	BY-108 (R)	8	SAMPLE	S95T001392	0	X 7435	ARCHIV01	SOLID	N/A	73.9		g

Final page for worklist # 1973

Alan B Campbell 8-16-95
Analyst Signature Date

Alan B Campbell 8-16-95
Analyst Signature Date

Data Entry Comments: Reviewed by RK Zeller 8/17/95

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# 1980

Analyst: ABC **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C98 SEGMENT-2(C&D) 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	499.95	N/A	
95000104	BY-108 (R)	3 SAMPLE	S95T001369	0 7393	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	4 SAMPLE	S95T001396	0 7303	SAMPAMT1	SOLID	N/A	~~10.3~~ / 0.3		g LAD 1-25-96
95000104	BY-108 (R)	5 SAMPLE	S95T001397	0 x7437	ARCHIV01	SOLID	N/A	66.1		g
95000104	BY-108 (R)	6 SAMPLE	S95T001370	0 7384	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	7 SAMPLE	S95T001399	0 7304	SAMPAMT1	SOLID	N/A	12.3		g
95000104	BY-108 (R)	8 SAMPLE	S95T001401	0 x7438	ARCHIV01	SOLID	N/A	37.9		g

Final page for worklist # 1980

Alan Campbell 8-16-95
Analyst Signature Date

Alan Campbell 8-16-95
Analyst Signature Date

Reviewed by RK Fuller 8/17/95

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# 1986

Analyst: _____ **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 Core-98 Seg-2 Drainable liquid\Seg 2(A) Solids\Homogn

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	499.95	N/A	
95000104	BY-108 (R)	3 SAMPLE	S95T001371	07385	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	4 SAMPLE	S95T001406	0 X7439	ARCHIV01	SOLID	N/A	73.0		g
95000104	BY-108 (R)	5 SAMPLE	S95T001404	07293	SAMPAMT1	SOLID	N/A	13.0		g
95000104	BY-108 (R)	6 SAMPLE	S95T001368	07392	SUBSMPL1	LIQUID	N/A	Complete		mL
95000104	BY-108 (R)	7 SAMPLE	S95T001427	07294	SAMPAMT1	LIQUID	N/A	23.4		g
95000104	BY-108 (R)	8 SAMPLE	S95T001428	0 X7440	ARCHIV01	LIQUID	N/A	57.3		g

Final page for worklist # 1986

Alan B Campbell 8-16-95
Analyst Signature Date

Alan B Campbell 8-16-95
Analyst Signature Date

Reviewed by RKT 8/17/95

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# 1988

Analyst: ABC **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 Core-98 Seg4(A,B,C,D) Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	20.00	19.99	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	500.00	499.81	N/A	
95000104	BY-108 (R)	3 SAMPLE	S95T001419	0 7295	SAMPAMT1	SOLID	N/A	14.6		g
95000104	BY-108 (R)	4 SAMPLE	S95T001411	0 7395	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	5 SAMPLE	S95T001415	0 X7441	ARCHIV01	SOLID	N/A	51.3		g
95000104	BY-108 (R)	6 SAMPLE	S95T001420	0 7296	SAMPAMT1	SOLID	N/A	13.9		g
95000104	BY-108 (R)	7 SAMPLE	S95T001412	0 7502	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	8 SAMPLE	S95T001416	0 X7442	ARCHIV01	SOLID	N/A	46.2		g
95000104	BY-108 (R)	9 SAMPLE	S95T001421	0 7297	SAMPAMT1	SOLID	N/A	11.6		g
95000104	BY-108 (R)	10 SAMPLE	S95T001413	0 7396	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	11 SAMPLE	S95T001417	0 X7444	ARCHIV01	SOLID	N/A	58.6		g
95000104	BY-108 (R)	12 SAMPLE	S95T001422	0 7298	SAMPAMT1	SOLID	N/A	13.7		g
95000104	BY-108 (R)	13 SAMPLE	S95T001414	0 7503	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	14 SAMPLE	S95T001418	0 X7445	ARCHIV01	SOLID	N/A	44.2		g

Final page for worklist # 1988

Alan B Campbell 8-16-95
Analyst Signature Date

Alan B Campbell 8-16-95
Analyst Signature Date

Data Entry Comments: Reviewed by RK Fuller 8/17/95.

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# 1990

Analyst: ABC **Instrument:** BA000 _____ **Book #** _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: BY-108 C-98 SEG-3-A,C,D,HOMOGENIZATION & DRAINABLE LIQUID

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	499.81	N/A	
95000104	BY-108 (R)	3	SAMPLE	S95T001379	0	7388	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	4	SAMPLE	S95T001431	0	7299	SAMPAMT1	SOLID	N/A	11.4		g
95000104	BY-108 (R)	5	SAMPLE	S95T001434	0	X7446	ARCHIV01	SOLID	N/A	57.4		g
95000104	BY-108 (R)	6	SAMPLE	S95T001432	0	7329	SAMPAMT1	SOLID	N/A	20.8		g
95000104	BY-108 (R)	7	SAMPLE	S95T001435	0	X7447	ARCHIV01	SOLID	N/A	64.5		g
95000104	BY-108 (R)	8	SAMPLE	S95T001377	0	7394	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	9	SAMPLE	S95T001378	0	7387	HOMGNZ01	SOLID	N/A	Complete		
95000104	BY-108 (R)	10	SAMPLE	S95T001433	0	7330	SAMPAMT1	SOLID	N/A	12.8		g
95000104	BY-108 (R)	11	SAMPLE	S95T001436	0	X7448	ARCHIV01	SOLID	N/A	Deleted	added	g
95000104	BY-108 (R)	12	SAMPLE	S95T001429	0	X7449	ARCHIV01	LIQUID	N/A	58.5		g
95000104	BY-108 (R)	13	SAMPLE	S95T001430	0	7331	SAMPAMT1	LIQUID	N/A	14.0		g
95000104	BY-108 (R)	14	SAMPLE	S95T001376	0	7386	SUBSMPL1	LIQUID	N/A	Complete		mL

Final page for worklist # 1990

Alan Campbell 8-16-95
Analyst Signature Date

Alan Campbell 8-16-95
Analyst Signature Date

Data Entry Comments: Reviewed by RK Fuller 8/17/95

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# 2021

Analyst: EAL **Instrument:** FUS01 AL11066 **Book #** NA

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1390->1391, 1396->1398; IN CELL #5, ROOM 2B

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		250mL	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE	S95T001391 0 F .6120g → 250mL		FUSION01	SOLID	N/A	2.4480	~~25~~ EAL	g/L
95000104	BY-108 (R)	3 SAMPLE	S95T001391 0 ~~.6060g~~ 8-18-95		DOSE-02	SOLID	N/A	25	~~25~~ EAL	mrad/hour
95000104	BY-108 (R)	4 DUP	S95T001391 0 F .6060g → 250mL		FUSION01	SOLID	2.4480	2.4240	N/A	g/L
95000104	BY-108 (R)	5 DUP	S95T001391 0		DOSE-02	SOLID		25	N/A	mrad/hour
95000104	BY-108 (R)	6 SAMPLE	S95T001398 0 F .5100 → 250mL		FUSION01	SOLID	N/A	2.0400		g/L
95000104	BY-108 (R)	7 SAMPLE	S95T001398 0		DOSE-02	SOLID	N/A	50	~~50~~ EAL	mrad/hour
95000104	BY-108 (R)	8 DUP	S95T001398 0 F .5010g → 250mL		FUSION01	SOLID	2.0400	2.0040	N/A	g/L
95000104	BY-108 (R)	9 DUP	S95T001398 0		DOSE-02	SOLID		40	N/A	mrad/hour

Final page for worklist # 2021

Analyst Signature Date 8-18-95

Analyst Signature Date 08/18/95

Dan Hamm 8/21/95

Data Entry Comments: Samples & Dups are clear in color
HPT: Bill Bishop OTT: 50mrad/hr - balance calibrated
Mettler @ 150.000 ext.

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 Hoffman II 8-21-95

LABCORE Data Entry Template for Worklist# 2022

Analyst: EAL **Instrument:** FUS01 AL11066 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1399->1400, 1404->1405; IN CELL #5, ROOM 2B

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID		250mL	N/A	g/L
95000104	BY-108 (R)	2	SAMPLE	S95T001400 .5330g → 250 mL	0	F	FUSION01	SOLID	N/A	2.1320		g/L
95000104	BY-108 (R)	3	SAMPLE	S95T001400	0		DOSE-02	SOLID	N/A		20	mrad/hour
95000104	BY-108 (R)	4	DUP	S95T001400 .5900g → 250 mL	0	F	FUSION01	SOLID	2.1320	2.3600	N/A	g/L
95000104	BY-108 (R)	5	DUP	S95T001400	0		DOSE-02	SOLID		15	N/A	mrad/hour
95000104	BY-108 (R)	6	SAMPLE	S95T001405 .5570g → 250 mL	0	F	FUSION01	SOLID	N/A	2.2280		g/L
95000104	BY-108 (R)	7	SAMPLE	S95T001405	0		DOSE-02	SOLID	N/A		20	mrad/hour
95000104	BY-108 (R)	8	DUP	S95T001405 .5850g → 250 mL	0	F	FUSION01	SOLID	2.2280	2.3400	N/A	g/L
95000104	BY-108 (R)	9	DUP	S95T001405	0		DOSE-02	SOLID		20	N/A	mrad/hour

Final page for worklist # 2022

Analyst Signature Date 8-18-95

Analyst Signature Date 08/18/95

8/20/95

Data Entry Comments: Samples & Dups are clear in color. HPT: Bill Bishop DTT: 20 mrad/hr - balance calibrated by Lisa @ 150.000 ex t. wt.

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 Griffin II 114 8-21-95

LABCORE Data Entry Template for Worklist# 2023

Analyst: DPB **Instrument:** FUS01 #11066 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1419->1423, 1420->1424; IN CELL #5, ROOM 2B

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID		~~20~~ 250 (DPB 8-21-95)	N/A	g/L
95000104	BY-108 (R)	2	SAMPLE	S95T001423	0	F	FUSION01	SOLID	N/A	1.6160		g/L
	0.4040g → 250mL											
95000104	BY-108 (R)	3	SAMPLE	S95T001423	0		DOSE-02	SOLID	N/A		500	mrad/hour
95000104	BY-108 (R)	4	DUP	S95T001423	0	F	FUSION01	SOLID	1.6160	1.6280	N/A	g/L
	0.4070g → .25L											
95000104	BY-108 (R)	5	DUP	S95T001423	0		DOSE-02	SOLID		~~1.628~~ AMO 500	N/A	mrad/hour
95000104	BY-108 (R)	6	SAMPLE	S95T001424	0	F	FUSION01	SOLID	N/A	1.9876		g/L
	0.4969g → .25L											
95000104	BY-108 (R)	7	SAMPLE	S95T001424	0		DOSE-02	SOLID	N/A		500	mrad/hour
95000104	BY-108 (R)	8	DUP	S95T001424	0	F	FUSION01	SOLID	1.9876	1.9988	N/A	g/L
	0.4997g → .25L											
95000104	BY-108 (R)	9	DUP	S95T001424	0		DOSE-02	SOLID		~~1.99~~ AMO 500	N/A	mrad/hour

Final page for worklist # 2023

Daniel P. Bamby 8/19/95
Analyst Signature **Date**

Anthony Purnton 8-19-95
Analyst Signature **Date**

Data Entry Comments: Blank Clear 1423 Brown Color/muddy Precipite
1424 & Dup Brown/Brown ~~Solids~~ AMO 5%
Hpt Bill Bishop HCl 15mL

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.

Edward Griffin II **115** 8-21-95

LABCORE Data Entry Template for Worklist# 2056

Analyst: SWF **Instrument:** FUS01 AL11 ~~08~~ 06 BJ II 8-22-95 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION 1421 > 1425, ~~1422 > 1426.~~ 8-22-95 Placed on another wor BJ II Revised 8-22-95

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID			N/A	g/L
			250 total Volume									
95000104	BY-108 (R)	2	SAMPLE	S95T001425	0	F	FUSION01	SOLID	N/A	1.6300		g/L
			0.4075 g → .250 mL									
95000104	BY-108 (R)	3	DUP	S95T001425	0	F	FUSION01	SOLID	1.6300	~~1.6~~ 1.6128 BJ II 8-22-95	N/A	g/L
			0.4032 g → .250 mL									
~~95000104~~	~~BY-108 (R)~~	~~4~~	~~SAMPLE~~	~~S95T001426~~	~~0~~	~~F~~	~~FUSION01~~	~~SOLID~~	~~N/A~~			~~g/L~~
~~95000104~~	~~BY-108 (R)~~	~~5~~	~~DUP~~	~~S95T001426~~	~~0~~	~~F~~	~~FUSION01~~	~~SOLID~~			~~N/A~~	~~g/L~~
95000104	BY-108 (R)	6	SAMPLE	S95T001425	0		DOSE-02	SOLID	N/A	500		mrad/hour
95000104	BY-108 (R)	7	DUP	S95T001425	0		DOSE-02	SOLID		500	N/A	mrad/hour
~~95000104~~	~~BY-108 (R)~~	~~8~~	~~SAMPLE~~	~~S95T001426~~	~~0~~		~~DOSE-02~~	~~SOLID~~	~~N/A~~			~~mrad/hour~~
~~95000104~~	~~BY-108 (R)~~	~~9~~	~~DUP~~	~~S95T001426~~	~~0~~		~~DOSE-02~~	~~SOLID~~			~~N/A~~	~~mrad/hour~~

BJ II 8-22-95

Final page for worklist # 2056

S Walton 8-20-95
Analyst Signature **Date**

Ellen Lambert 08/20/95
Analyst Signature **Date**

Data Entry Comments: Parent Sample 1422 for 1426 not out of Hot Cell yet Starting dose 25R
Samples were dark & murkey - HNO3 was added - samples were heated.
S95T001425
HCL: 15ml each. 8N HNO3: 15ml each. HPT: Bill Bishop Suzy calibrated 150.001 w/ipt
BLANK - 5ml HCL 8ml HNO3. 500 m/rad - 75 mr

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 Griffin II 8-22-95

LABCORE Data Entry Template for Worklist# 2057

Analyst: MDD **Instrument:** FUS01 AL11066 **Book #** N/A

Method: LA-549-141 Rev/Mod DD

Worklist Comment: BY-108 FUSION 1431 > 1480, 1432 > 1481.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		250	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE	S95T001480	0 F	FUSION01	SOLID	N/A	4.3948		g/L
		1.0987 → .250 mL								
95000104	BY-108 (R)	3 SAMPLE	S95T001480	0	DOSE-02	SOLID	N/A		50	mrad/hour
95000104	BY-108 (R)	4 DUP	S95T001480	0 F	FUSION01	SOLID	4.3948	4.2908	N/A	g/L
		1.0727 → .250 mL								
95000104	BY-108 (R)	5 DUP	S95T001480	0	DOSE-02	SOLID		50	N/A	mrad/hour
95000104	BY-108 (R)	6 SAMPLE	S95T001481	0 F	FUSION01	SOLID	N/A	4.1152		g/L
		1.0288 → .250 mL								
95000104	BY-108 (R)	7 SAMPLE	S95T001481	0	DOSE-02	SOLID	N/A		50	mrad/hour
95000104	BY-108 (R)	8 DUP	S95T001481	0 F	FUSION01	SOLID	4.1152	4.1476	N/A	g/L
		1.0369 → .250 mL								
95000104	BY-108 (R)	9 DUP	S95T001481	0	DOSE-02	SOLID	4	50	N/A	mrad/hour

Final page for worklist # 2057

Analyst Signature Date 8-19-95

Analyst Signature Date 8-21-95

Data Entry Comments: Prep Blk Clean ~~18~~ 1481 Dup Clean 1480 Dup

Cloudy / ~~Clear~~ Brownish 1% Solids → ~~Precipt~~ Precipate

HPt Bill Bishop ~~Blue~~ HCl 15ml

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# 2058

Analyst: ADD **Instrument:** FUS01 AL11066 **Book #** NA

Method: LA-549-141 Rev/Mod 0

Worklist Comment: BY-108 FUSION 1433 > 1482.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		.250mL BB II 8-21-95	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE	S95T001482 1.0855 → 250mL	0 F	FUSION01	SOLID	N/A	4.3420		g/L
95000104	BY-108 (R)	3 SAMPLE	S95T001482	0	DOSE-02	SOLID	N/A		50	mrad/hour
95000104	BY-108 (R)	4 DUP	S95T001482 1.0682 → 250mL	0 F	FUSION01	SOLID	4.3420	4.2728	N/A	g/L
95000104	BY-108 (R)	5 DUP	S95T001482	0	DOSE-02	SOLID		50	N/A	mrad/hour

Final page for worklist # 2058

Jeffrey Purnton 8-19-95
Analyst Signature Date

Bertrand Biffam 8-21-95
Analyst Signature Date

Data Entry Comments: Blank Clear 1482 & Dup Cloudy No Solids
Clear

Hpt Bill Bishop Hcl 15mL

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 Biffam II 118 8-21-95

LABCORE Data Entry Template for Worklist# 2072

Analyst: JM **Instrument:** ~~BA000~~ FUS01 AL11D166 BBII 8-31-95 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1422->1426

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				FUSION01	SOLID	250ml		N/A	g/L
95000104	BY-108 (R)	2 SAMPLE .2817g → 250ml	S95T001426	0	F	FUSION01	SOLID	N/A	1.1268		g/L
95000104	BY-108 (R)	3 SAMPLE	S95T001426	0		DOSE-02	SOLID	N/A	500		mrad/hour
95000104	BY-108 (R)	4 DUP .3131g → 250ml	S95T001426	0	F	FUSION01	SOLID	1.1268	1.2524	N/A	g/L
95000104	BY-108 (R)	5 DUP	S95T001426	0		DOSE-02	SOLID	N/A	500	N/A	mrad/hour

Final page for worklist # 2072

JM Murphy 8-25-95
Analyst Signature Date

[illegible] 8-25-95
Analyst Signature Date

Data Entry Comments: HPT was Sam Scheme
Blank - 20ml HCl, 20ml HNO3, <1% solids
Sample - 20ml HCl, 65ml HNO3, <1% solids
Dup - 20ml HCl, 110ml HNO3, <1% solids

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 Griffin II 119 8-31-95

LABCORE Data Entry Template for Worklist# 2629

Analyst: DPB **Instrument:** FUS01 AL11066 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1925->2001, 1966->2002

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	.25L	.25L	N/A	g/L
95000118	BY-108 (R)	2	SAMPLE	S95T002001	0	F	FUSION01	SOLID	N/A	2.0724		g/L
0.5181g → .25L												
95000118	BY-108 (R)	3	SAMPLE	S95T002001	0		DOSE-02	SOLID	N/A	5		mrad/hour
95000118	BY-108 (R)	4	DUP	S95T002001	0	F	FUSION01	SOLID	2.0724	2.0744	N/A	g/L
0.5186g → .25L												
95000118	BY-108 (R)	5	DUP	S95T002001	0		DOSE-02	SOLID	N/A	5	N/A	mrad/hour
95000118	BY-108 (R)	6	SAMPLE	S95T002002	0	F	FUSION01	SOLID	N/A	2.2416		g/L
0.5604g → .25L												
95000118	BY-108 (R)	7	SAMPLE	S95T002002	0		DOSE-02	SOLID	N/A	35		mrad/hour
95000118	BY-108 (R)	8	DUP	S95T002002	0	F	FUSION01	SOLID	2.2416	2.2436	N/A	g/L
0.5609g → .25L												
95000118	BY-108 (R)	9	DUP	S95T002002	0		DOSE-02	SOLID	N/A	40	N/A	mrad/hour

Final page for worklist # 2629

Donald C. Bromley 9/30/95
Analyst Signature **Date**

[illegible] 10-2-95
Analyst Signature **Date**

Data Entry Comments: 20 mL 4m HCl added to each sample, each dup and to blank.
10 mL HNO_3 added to S95T002002 SAMPLE.
Dose rates performed by Scott Corbaley

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.

BB II 10-2-95

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2630

Analyst: SM **Instrument:** FUS01 AL11066 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1967->2003, 1968->2004

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250mL	250mL	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE	S95T002003	0 F	FUSION01	SOLID	N/A	2.0312		g/L
		.5078g → 250mL								
95000118	BY-108 (R)	3 SAMPLE	S95T002003	0	DOSE-02	SOLID	N/A	35		mrad/hour
95000118	BY-108 (R)	4 DUP	S95T002003	0 F	FUSION01	SOLID	2.0312	2.0224	N/A	g/L
		.5056g → .250mL								
95000118	BY-108 (R)	5 DUP	S95T002003	0	DOSE-02	SOLID		45	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE	S95T002004	0 F	FUSION01	SOLID	N/A	2.0152		g/L
		.5038g → .250mL								
95000118	BY-108 (R)	7 SAMPLE	S95T002004	0	DOSE-02	SOLID	N/A	35		mrad/hour
95000118	BY-108 (R)	8 DUP	S95T002004	0 F	FUSION01	SOLID	2.0152	2.0240	N/A	g/L
		.5060g → .250mL								
95000118	BY-108 (R)	9 DUP	S95T002004	0	DOSE-02	SOLID	N/A	50	N/A	mrad/hour

Final page for worklist # 2630

S. Morris 9/29/95
Analyst Signature Date

[signature] 10-3-95
Analyst Signature Date

Data Entry Comments: Blank: 10mL HCl, 10mL HNO_3 <1% solids
Sample & Dup 2003: 20mL HCl, 20mL HNO_3 <1% solids
Sample & Dup 2004: 20mL HCl, 20mL HNO_3 <1% solids

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] HPT was Bob Clements 10-5-95

LABCORE Data Entry Template for Worklist# 2631

Analyst: SM **Instrument:** FUS01 AL11066 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1970->2006, 1971->2007

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	250 mL	250mL	N/A	g/L
95000118	BY-108 (R)	2	SAMPLE	S95T002006	0	F	FUSION01	SOLID	N/A	2.1188		g/L
			.5297g → .250mL									
95000118	BY-108 (R)	3	SAMPLE	S95T002006	0		DOSE-02	SOLID	N/A	50		mrad/hour
95000118	BY-108 (R)	4	DUP	S95T002006	0	F	FUSION01	SOLID	2.1188	2.1128	N/A	g/L
			.5282g → .250mL									
95000118	BY-108 (R)	5	DUP	S95T002006	0		DOSE-02	SOLID		45	N/A	mrad/hour
95000118	BY-108 (R)	6	SAMPLE	S95T002007	0	F	FUSION01	SOLID	N/A	2.0272		g/L
			.5068g → .250mL									
95000118	BY-108 (R)	7	SAMPLE	S95T002007	0		DOSE-02	SOLID	N/A	40		mrad/hour
95000118	BY-108 (R)	8	DUP	S95T002007	0	F	FUSION01	SOLID	2.0272	2.0316	N/A	g/L
			.5079g → .250mL									
95000118	BY-108 (R)	9	DUP	S95T002007	0		DOSE-02	SOLID		40	N/A	mrad/hour

Final page for worklist # 2631

S. Morris 9/29/95
Analyst Signature Date

[signature] 10-3-95
Analyst Signature Date

Data Entry Comments: Blank: 10mL HCl, 10mL HNO3, < 1% Solids
Sample & Dup 2006 20mL HCL, 20mL HNO3 < 1% Solids
Sample & Dup 2007 10mL HCL, 10mL HNO3, < 1% solids

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 [signature] II HPT was Bob Clements 10-6-95 122

LABCORE Data Entry Template for Worklist# 2636

Analyst: DPB **Instrument:** FUS01 AL11066 **Book #** NA

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1972->2008, 1973->2009

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	.25L	.25L	N/A	g/L
95000118	BY-108 (R)	2	SAMPLE	S95T002008	0	F	FUSION01	SOLID	N/A	2.0040		g/L
0.5010 g → .25L												
95000118	BY-108 (R)	3	SAMPLE	S95T002008	0		DOSE-02	SOLID	N/A	15		mrad/hour
95000118	BY-108 (R)	4	DUP	S95T002008	0	F	FUSION01	SOLID	2.0040	2.0052	N/A	g/L
0.5013 g → .25L												
95000118	BY-108 (R)	5	DUP	S95T002008	0		DOSE-02	SOLID	N/A	15	N/A	mrad/hour
95000118	BY-108 (R)	6	SAMPLE	S95T002009	0	F	FUSION01	SOLID	N/A	2.0424		g/L
0.5106 g → .25L												
95000118	BY-108 (R)	7	SAMPLE	S95T002009	0		DOSE-02	SOLID	N/A	90		mrad/hour
95000118	BY-108 (R)	8	DUP	S95T002009	0	F	FUSION01	SOLID	2.0424	2.0376	N/A	g/L
0.5094 g → .25L												
95000118	BY-108 (R)	9	DUP	S95T002009	0		DOSE-02	SOLID	N/A	25	N/A	mrad/hour

Final page for worklist # 2636

David P. Brownley 10/1/95
Analyst Signature **Date**

Dan Hunter 10-3-95
Analyst Signature **Date**

Data Entry Comments: 10/1/95 DPB .02 L ~~20~~ mL 4M HCl added to each sample, each dup and to blank
DPB 10/1/95 ~~20~~ mL .02 L HNO_3 added to S95T002009 SAMPLE; <1% solids
Dose rates performed by Scott Corbaley

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.

[illegible] 10-4-95

LABCORE Data Entry Template for Worklist# 2637

Analyst: DPB **Instrument:** FUS01 AL11066 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1974->2010, 1975->2011

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	.25L	.25L	N/A	g/L
95000118	BY-108 (R)	2	SAMPLE	S95T002010	0	F	FUSION01	SOLID	N/A	2.0408		g/L
0.5102g → .25L 95000118	BY-108 (R)	3	SAMPLE	S95T002010	0		DOSE-02	SOLID	N/A	20		mrad/hour
95000118	BY-108 (R)	4	DUP	S95T002010	0	F	FUSION01	SOLID	2.0408	2.0376	N/A	g/L
0.5094g → .25L 95000118	BY-108 (R)	5	DUP	S95T002010	0		DOSE-02	SOLID	N/A	25	N/A	mrad/hour
95000118	BY-108 (R)	6	SAMPLE	S95T002011	0	F	FUSION01	SOLID	N/A	2.052		g/L
0.5130g → .25L 95000118	BY-108 (R)	7	SAMPLE	S95T002011	0		DOSE-02	SOLID	N/A	30		mrad/hour
95000118	BY-108 (R)	8	DUP	S95T002011	0	F	FUSION01	SOLID	2.0520	20572	N/A	g/L
0.5143g → .25L 95000118	BY-108 (R)	9	DUP	S95T002011	0		DOSE-02	SOLID	N/A	35	N/A	mrad/hour

Final page for worklist # 2637

Daniel P. Bromley 10/1/95
Analyst Signature **Date**

[illegible] 10-3-95
Analyst Signature **Date**

Data Entry Comments: .020 L HCl added to each sample, each dup and to blank
.01 L HNO_3 added to S95T002011 SAMPLE and DUP.
Dose rates performed by Joe Valdez.

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.

[illegible] II 124 10-5-95

LABCORE Data Entry Template for Worklist# 2639

Analyst: SM **Instrument:** FUS01 AL110666 **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1976->2012, 1977->2013

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250mL	250mL	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE	S95T002012	0 F	FUSION01	SOLID	N/A	2.0104		g/L
		.5026g → .25L								
95000118	BY-108 (R)	3 SAMPLE	S95T002012	0	DOSE-02	SOLID	N/A	500		mrad/hour
95000118	BY-108 (R)	4 DUP	S95T002012	0 F	FUSION01	SOLID	2.0104	2.0308	N/A	g/L
		.5077g → .25L								
95000118	BY-108 (R)	5 DUP	S95T002012	0	DOSE-02	SOLID	N/A	500	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE	S95T002013	0 F	FUSION01	SOLID	N/A	2.1056		g/L
		.5264g → .25L								
95000118	BY-108 (R)	7 SAMPLE	S95T002013	0	DOSE-02	SOLID	N/A	550		mrad/hour
95000118	BY-108 (R)	8 DUP	S95T002013	0 F	FUSION01	SOLID	2.1056	2.0956	N/A	g/L
		.5239g → .25L								
95000118	BY-108 (R)	9 DUP	S95T002013	0	DOSE-02	SOLID	N/A	600	N/A	mrad/hour

Final page for worklist # 2639

Sonja Morris 10/02/95
Analyst Signature **Date**

Gary Hamilton 10/3/95
Analyst Signature **Date**

Data Entry Comments: Blank: 20mL HCL, ~~35~~ 25 mL HNO3, < 1% solids SM 10-02-95
Sample & Dup 2012: 20mL HCL, ~~35~~ 25 mL HNO3, < 1% solids
Sample & Dup 2013: 20mL HCL, 45 mL HNO3, < 1% solids

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 Griffin II 10-4-95 HPT was ~~Sam Shemat~~ Scott Corbaley

LABCORE Data Entry Template for Worklist# 2640

Analyst: KGH **Instrument:** FUS01 ALLIOlde **Book #** N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108 FUSION - 1978->2014

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	250	250	N/A K.H. 10-3-95	g/L
95000118	BY-108 (R)	2	SAMPLE .5012g → .250l	S95T002014	0	F	FUSION01	SOLID	N/A	2.0048	~~2.0048~~	g/L
95000118	BY-108 (R)	3	SAMPLE	S95T002014	0		DOSE-02	SOLID	N/A	500		mrad/hour
95000118	BY-108 (R)	4	DUP .4933g → .250l	S95T002014	0	F	FUSION01	SOLID	2.0048	1.9732	N/A	g/L
95000118	BY-108 (R)	5	DUP	S95T002014	0		DOSE-02	SOLID		500	N/A	mrad/hour

Final page for worklist # 2640

Analyst Signature 10-3-95 Date

Analyst Signature 10/3/95 Date

S95T002014 SAMPLE 14 ML HCL
25 ML HNO3 LESS THAN 1% SOLIDS

DUP 14 ML HCL
25 ML HNO3 LESS THAN 1% SOLIDS

BLK 14 ML HCL
25 ML HNO3 LESS THAN 1% SOLIDS.

Data Entry Comments: HP WAS CHARLENE COOPER, 500 MRAD, 75 MR/hr

10-5-95

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# 2806

Analyst: YAM **Instrument:** FUS01 AL11066 **Book #** NA

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: BY-108, FUSION, 1969-2005 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	.250	.250	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE	S95T002005	0 F	FUSION01	SOLID	N/A	2.1672		g/L
		.5418g → .250l								
95000118	BY-108 (R)	3 SAMPLE	S95T002005	0	DOSE-02	SOLID	N/A	5		mrad/hour
95000118	BY-108 (R)	4 DUP	S95T002005	0 F	FUSION01	SOLID	2.1672	2.5452	N/A	g/L
		.6363g → .250l								
95000118	BY-108 (R)	5 DUP	S95T002005	0	DOSE-02	SOLID		5	N/A	mrad/hour

Final page for worklist # 2806

Analyst Signature Date

Analyst Signature Date 10-13-95

- HPT was ~~5 mrad~~ NO 10-13-95 Sig Lando.
- Dose Rate for Batch is 5mrad

10/13/95

Data Entry Comments:
For BLK, SAM & DUP: HCl : 20 ml
HNO3 10 ml
Sample & QC's are clear, colorless, and no solids undisolved.

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.

Bertram Griffin II 127 10-16-95

LMHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2883

Analyst: [illegible] **Instrument:** H2O01 [illegible] **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H2O DGST - 1390->2484, 1404->2490

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H2ODIG01	SOLID	100ml	100ml	N/A	g/L
95000104	BY-108 (R)	2	SAMPLE	S95T002484	0	W	H2ODIG01	SOLID	N/A	10.3170		g/L
			1.0317g → 100ml									
95000104	BY-108 (R)	3	SAMPLE	S95T002484	0		DOSE-02	SOLID	N/A	4		mrad/hour
95000104	BY-108 (R)	4	DUP	S95T002484	0	W	H2ODIG01	SOLID	10.3170	10.0230	N/A	g/L
			1.0023g → 100ml									
95000104	BY-108 (R)	5	DUP	S95T002484	0		DOSE-02	SOLID		5	N/A	mrad/hour
95000104	BY-108 (R)	6	SAMPLE	S95T002490	0	W	H2ODIG01	SOLID	N/A	9.4840		g/L
			.9484g → 100ml									
95000104	BY-108 (R)	7	SAMPLE	S95T002490	0		DOSE-02	SOLID	N/A	4		mrad/hour
95000104	BY-108 (R)	8	DUP	S95T002490	0	W	H2ODIG01	SOLID	9.4840	9.6120	N/A	g/L
			.9612g → 100ml									
95000104	BY-108 (R)	9	DUP	S95T002490	0		DOSE-02	SOLID		4	N/A	mrad/hour

Final page for worklist # 2883

[illegible] 10-29-95
Analyst Signature | **Date**

[illegible] 11/30/95
Analyst Signature **Date**

Data Entry Comments:
125ml amber vials were used as per chemist instructions
HPT was Joe Valdez
Bertrand Griffin II 10-30-95

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# 2884

Analyst: [illegible] **Instrument:** H2O01 [illegible] **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H2O DGST - 1431->2493, 1432->2494

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	.1001	.1001	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE	S95T002493	0 W	H2ODIG01	SOLID	N/A	5.9510		g/L
		.5951g -> .1001								
95000104	BY-108 (R)	3 SAMPLE	S95T002493	0	DOSE-02	SOLID	N/A	3		mrad/hour
95000104	BY-108 (R)	4 DUP	S95T002493	0 W	H2ODIG01	SOLID	5.9510	6.6060	N/A	g/L
		.6606g -> .1001								
95000104	BY-108 (R)	5 DUP	S95T002493	0	DOSE-02	SOLID		5	N/A	mrad/hour
95000104	BY-108 (R)	6 SAMPLE	S95T002494	0 W	H2ODIG01	SOLID	N/A	13.9450		g/L
		1.3945g -> .1001								
95000104	BY-108 (R)	7 SAMPLE	S95T002494	0	DOSE-02	SOLID	N/A	8		mrad/hour
95000104	BY-108 (R)	8 DUP	S95T002494	0 W	H2ODIG01	SOLID	13.9450	13.7290	N/A	g/L
		1.3729g -> .1001								
95000104	BY-108 (R)	9 DUP	S95T002494	0	DOSE-02	SOLID		10	N/A	mrad/hour

Final page for worklist # 2884

[illegible] 10-29-95
Analyst Signature **Date**

[illegible] 10/30/95
Analyst Signature **Date**

Data Entry Comments:
125ml amber vials were used as per chemist instructions
HPT was [illegible]
Bertrand Griffin II 10-30-95

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 2.1 05/15/95
10/13/95 08:13

LABCORE Data Entry Template for Worklist# 2888

Analyst: [illegible] **Instrument:** H2O01 AL10216 **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H20 DIGEST 1433->2495, 1419->2496. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	.1001	.1001	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE .88889 → .1001	S95T002495	0 W	H20DIG01	SOLID	N/A	8.8880		g/L
95000104	BY-108 (R)	3 SAMPLE	S95T002495	0	DOSE-02	SOLID	N/A	7		mrad/hour
95000104	BY-108 (R)	4 DUP .92489 → .1001	S95T002495	0 W	H20DIG01	SOLID	8.8880	9.2480	N/A	g/L
95000104	BY-108 (R)	5 DUP	S95T002495	0	DOSE-02	SOLID		5	N/A	mrad/hour
95000104	BY-108 (R)	6 SAMPLE .75569 → 100 ml	S95T002496	0 W	H20DIG01	SOLID	N/A	7.5560		g/L
95000104	BY-108 (R)	7 SAMPLE	S95T002496	0	DOSE-02	SOLID	N/A	5		mrad/hour
95000104	BY-108 (R)	8 DUP .78539 → 100 ml	S95T002496	0 W	H20DIG01	SOLID	7.5560	7.8530	N/A	g/L
95000104	BY-108 (R)	9 DUP	S95T002496	0	DOSE-02	SOLID		4	N/A	mrad/hour

Final page for worklist # 2888

[illegible] 10-29-95
Analyst Signature **Date**

[illegible] 10/30/95
Analyst Signature **Date**

Data Entry Comments:
125ml amber vials were used as per chemist instructions
HPT was for Valdez
Bertrand Griffin II 10-30-95

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# 2889

Analyst: JMM **Instrument:** H2O01 AL110616 **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H20 DIGEST, 1420->2497, 1421->2498. use .5g for 2498.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	100ml	100ml	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE	S95T002497	0 W	H20DIG01	SOLID	N/A	11.0140		g/L
		1.1014g → 100ml								
95000104	BY-108 (R)	3 SAMPLE	S95T002497	0	DOSE-02	SOLID	N/A	4		mrad/hour
95000104	BY-108 (R)	4 DUP	S95T002497	0 W	H20DIG01	SOLID	11.0140	11.6240	N/A	g/L
		1.1624g → 100ml								
95000104	BY-108 (R)	5 DUP	S95T002497	0	DOSE-02	SOLID		4	N/A	mrad/hour
95000104	BY-108 (R)	6 SAMPLE	S95T002498	0 W	H20DIG01	SOLID	N/A	4.8620		g/L
		.4862g → 100ml								
95000104	BY-108 (R)	7 SAMPLE	S95T002498	0	DOSE-02	SOLID	N/A	4		mrad/hour
95000104	BY-108 (R)	8 DUP	S95T002498	0 W	H20DIG01	SOLID	4.8620	5.0360	N/A	g/L
		.5036g → 100ml								
95000104	BY-108 (R)	9 DUP	S95T002498	0	DOSE-02	SOLID		4	N/A	mrad/hour

Final page for worklist # 2889

JMMurphy 10-29-95
Analyst Signature Date

Gary Johnson 10/30/95
Analyst Signature Date

Data Entry Comments:
125ml amber vials were used as per chemist instructions
HPT was Joe Valdez
Bertrand Griffin II 10-30-95

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# 2890

Analyst: GAM **Instrument:** H2OOIAR1106Lp **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H20 DIGEST, 1422->2499, 1925->2536. use .5g for 2499

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	100L	100L	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE	S95T002499	0 W	H20DIG01	SOLID	N/A	1.S.		g/L
95000104	BY-108 (R)	3 SAMPLE Insufficient sample	S95T002499	0	DOSE-02	SOLID	N/A	N/A		mrad/hour
95000104	BY-108 (R)	4 DUP	S95T002499	0 W	H20DIG01	SOLID	1.S.	1.S.	N/A	g/L
95000104	BY-108 (R)	5 DUP Insufficient Sample	S95T002499	0	DOSE-02	SOLID		N/A	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE .8193g → .100L	S95T002536	0 W	H20DIG01	SOLID	N/A	8.1930		g/L
95000118	BY-108 (R)	7 SAMPLE	S95T002536	0	DOSE-02	SOLID	N/A	1		mrad/hour
95000118	BY-108 (R)	8 DUP .8439g → .100L	S95T002536	0 W	H20DIG01	SOLID	8.1930	8.9340	N/A	g/L
95000118	BY-108 (R)	9 DUP	S95T002536	0	DOSE-02	SOLID		1	N/A	mrad/hour

Final page for worklist # 2890

G A Murphy 10-29-95
Analyst Signature **Date**

[illegible] 10/30/95
Analyst Signature **Date**

Data Entry Comments:
125ml amber vials were used as per Chemists instruction
HPT was the Valley
Bernard Griffin II 10-30-95

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# 2891

Analyst: GRM **Instrument:** H2O01 Ultrolab **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H20 DIGEST, 1966->2558, 1967->2559. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	.1000	.1000	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE .3817g → .100L	S95T002558	0 W	H20DIG01	SOLID	N/A	3.8170		g/L
95000118	BY-108 (R)	3 SAMPLE	S95T002558	0	DOSE-02	SOLID	N/A	2		mrad/hour
95000118	BY-108 (R)	4 DUP .8975g → .100L	S95T002558	0 W	H20DIG01	SOLID	3.8170	8.9780	N/A	g/L
95000118	BY-108 (R)	5 DUP	S95T002558	0	DOSE-02	SOLID		1.8	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE .5214g → .100L	S95T002559	0 W	H20DIG01	SOLID	N/A	5.2140		g/L
95000118	BY-108 (R)	7 SAMPLE	S95T002559	0	DOSE-02	SOLID	N/A	3		mrad/hour
95000118	BY-108 (R)	8 DUP .6023g → .100L	S95T002559	0 W	H20DIG01	SOLID	5.2140	6.0230	N/A	g/L
95000118	BY-108 (R)	9 DUP	S95T002559	0	DOSE-02	SOLID		2.7	N/A	mrad/hour

Final page for worklist # 2891

GRMurphy 10-29-95
Analyst Signature **Date**

Gary Hunt 10/30/95
Analyst Signature **Date**

NOTE ON SAMPLE S95T001962 and its Q.C.:
Varying weights with sample and Duplicate has to do with one large rock that couldn't be split and not much else in the vial. The rock dissolved during water digest.

Data Entry Comments:
125ml amber vials were used as per chemist instruction HPT was validating 2558 may need to be repulled from hotcells and reprepared based on IC results. BE

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.

Bernard Griffin II 133 10-30-95

LABCORE Data Entry Template for Worklist# 2892

Analyst: JMM **Instrument:** H2O01 AU10616 **Book #** N/A

Method: LA-504-101 Rev/Mod DO

Worklist Comment: BY-108 H20 DIGEST, 1968->2560, 1969->2561. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	.1001	.1001	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE .72229 → .1001	S95T002560	0 W	H20DIG01	SOLID	N/A	7.2220		g/L
95000118	BY-108 (R)	3 SAMPLE	S95T002560	0	DOSE-02	SOLID	N/A	4		mrad/hour
95000118	BY-108 (R)	4 DUP .7508g → .1001	S95T002560	0 W	H20DIG01	SOLID	7.2220	7.5080	N/A	g/L
95000118	BY-108 (R)	5 DUP	S95T002560	0	DOSE-02	SOLID		3	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE .8661g → .1001	S95T002561	0 W	H20DIG01	SOLID	N/A	8.6610		g/L
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	DOSE-02	SOLID	N/A	25		mrad/hour
95000118	BY-108 (R)	8 DUP .8906	S95T002561	0 W	H20DIG01	SOLID	8.6610	8.9000	N/A	g/L
95000118	BY-108 (R)	9 DUP	S95T002561	0	DOSE-02	SOLID		3	N/A	mrad/hour

Final page for worklist # 2892

JJMurphy 10-29-95
Analyst Signature Date

Gary Hamm 10/30/95
Analyst Signature Date

Data Entry Comments:
125ml amber vials were used as per chemists instructions
HPT was Joe Valdez
Bertrand Griffith 10-30-95

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# 2893

Analyst: JAM **Instrument:** H2O01 AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H20 DIGEST 1970->2562, 1971->2563. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	100	100	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE .6818g → .100ℓ	S95T002562	0 W	H20DIG01	SOLID	N/A	6.8180		g/L
95000118	BY-108 (R)	3 SAMPLE	S95T002562	0	DOSE-02	SOLID	N/A	3.5		mrad/hour
95000118	BY-108 (R)	4 DUP .7459g → .100ℓ	S95T002562	0 W	H20DIG01	SOLID	6.8180	7.4590	N/A	g/L
95000118	BY-108 (R)	5 DUP	S95T002562	0	DOSE-02	SOLID		3.5	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE .5748g → .100ℓ	S95T002563	0 W	H20DIG01	SOLID	N/A	5.7480		g/L
95000118	BY-108 (R)	7 SAMPLE	S95T002563	0	DOSE-02	SOLID	N/A	4		mrad/hour
95000118	BY-108 (R)	8 DUP .5816g → .100ℓ	S95T002563	0 W	H20DIG01	SOLID	5.7480	5.8160	N/A	g/L
95000118	BY-108 (R)	9 DUP	S95T002563	0	DOSE-02	SOLID		4	N/A	mrad/hour

Final page for worklist # 2893

JAMurphy 10-29-95
Analyst Signature **Date**

10/30/95
Analyst Signature **Date**

Data Entry Comments:
125ml amber vials were used as per chemist instructions
HPT was Joe Valdez
Bertrand Griffin II 10-30-95

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# 2894

Analyst: [illegible] **Instrument:** H2O01 AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H20 DIGEST, 1972->2564, 1973->2565. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	100	100	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE	S95T002564	0 W	H20DIG01	SOLID	N/A	3.7730		g/L
		.3773 g → .100 ℓ								
95000118	BY-108 (R)	3 SAMPLE	S95T002564	0	DOSE-02	SOLID	N/A	1		mrad/hour
95000118	BY-108 (R)	4 DUP	S95T002564	0 W	H20DIG01	SOLID	3.7730	3.5290	N/A	g/L
		.3529 g → .100 ℓ								
95000118	BY-108 (R)	5 DUP	S95T002564	0	DOSE-02	SOLID		1	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE	S95T002565	0 W	H20DIG01	SOLID	N/A	5.1360		g/L
		.5136 g → .100 ℓ								
95000118	BY-108 (R)	7 SAMPLE	S95T002565	0	DOSE-02	SOLID	N/A	3		mrad/hour
95000118	BY-108 (R)	8 DUP	S95T002565	0 W	H20DIG01	SOLID	5.1360	5.3430	N/A	g/L
		.5343 g → .100 ℓ								
95000118	BY-108 (R)	9 DUP	S95T002565	0	DOSE-02	SOLID		4	N/A	mrad/hour

Final page for worklist # 2894

[illegible] 10-18-95
Analyst Signature **Date**

[illegible] 10-20-95
Analyst Signature **Date**

Data Entry [illegible] 10-19-95

Data Entry Comments: HPT was Jim Evans

[illegible] 10-20-95

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# 2895

Analyst: JAM **Instrument:** H2O01 AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod D-D

Worklist Comment: BY-108 H20 DIGEST, 1974->2566, 1975->2568. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	100	100	N/A	g/L
95000118	BY-108 (R)	2 SAMPLE	S95T002566	0 W	H20DIG01	SOLID	N/A	7.7430		g/L
		.7743g → .100ℓ								
95000118	BY-108 (R)	3 SAMPLE	S95T002566	0	DOSE-02	SOLID	N/A	10		mrad/hour
95000118	BY-108 (R)	4 DUP	S95T002566	0 W	H20DIG01	SOLID	7.7430	7.5060	N/A	g/L
		.7506g → .100ℓ								
95000118	BY-108 (R)	5 DUP	S95T002566	0	DOSE-02	SOLID		10	N/A	mrad/hour
95000118	BY-108 (R)	6 SAMPLE	S95T002568	0 W	H20DIG01	SOLID	N/A	6.3660		g/L
		.6366g → .100ℓ								
95000118	BY-108 (R)	7 SAMPLE	S95T002568	0	DOSE-02	SOLID	N/A	9		mrad/hour
95000118	BY-108 (R)	8 DUP	S95T002568	0 W	H20DIG01	SOLID	6.3660	6.6300	N/A	g/L
		.6630g → .100ℓ								
95000118	BY-108 (R)	9 DUP	S95T002568	0	DOSE-02	SOLID		10	N/A	mrad/hour

Final page for worklist # 2895

Analyst Signature | Date: 10-18-95

Analyst Signature | Date: 10-20-95

Data entry OK MGarcia 10-19-95

Data Entry Comments: HPT was Jim Evans

BJ II 10-20-95

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# 2896

Analyst: GAM **Instrument:** H2O01 AL11066 **Book #** N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 H20 Digest, 1976->2569, 1977->2570. gjh

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H20DIG01	SOLID	100	100	N/A	g/L
95000118	BY-108 (R)	2	SAMPLE	S95T002569	0	W	H20DIG01	SOLID	N/A	1.9030		g/L
			.1903g → .100ℓ									
95000118	BY-108 (R)	3	SAMPLE	S95T002569	0		DOSE-02	SOLID	N/A	5		mrad/hour
95000118	BY-108 (R)	4	DUP	S95T002569	0	W	H20DIG01	SOLID	1.9030	1.6270	N/A	g/L
			.1627g → .100ℓ									
95000118	BY-108 (R)	5	DUP	S95T002569	0		DOSE-02	SOLID		5	N/A	mrad/hour
95000118	BY-108 (R)	6	SAMPLE	S95T002570	0	W	H20DIG01	SOLID	N/A	1.3590		g/L
			.1359g → .100ℓ									
95000118	BY-108 (R)	7	SAMPLE	S95T002570	0		DOSE-02	SOLID	N/A	3		mrad/hour
95000118	BY-108 (R)	8	DUP	S95T002570	0	W	H20DIG01	SOLID	1.3590	1.4410	N/A	g/L
			.1441g → .100ℓ									
95000118	BY-108 (R)	9	DUP	S95T002570	0		DOSE-02	SOLID		3	N/A	mrad/hour

Final page for worklist # 2896

GAMurphy 10-18-95
Analyst Signature Date

Richard Griffin II 10-20-95
Analyst Signature Date

Data Entry OK M Larsen 10-19-95

Data Entry Comments: HPT was Jim Evans

RG II 10-20-95

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# 2897

Analyst: [illegible] **Instrument:** H2O01 A11066 **Book #** NA

Method: LA-504-101 Rev/Mod D-D

Worklist Comment: BY-108 H20 DIGEST, 1978->2571. gjh

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H20DIG01	SOLID	100	100	N/A	g/L
95000118	BY-108 (R)	2	SAMPLE	S95T002571	0	W	H20DIG01	SOLID	N/A	6.0070		g/L
				.6007g → .1002								
95000118	BY-108 (R)	3	SAMPLE	S95T002571	0		DOSE-02	SOLID	N/A	16		mrad/hour
95000118	BY-108 (R)	4	DUP	S95T002571	0	W	H20DIG01	SOLID	6.0070	6.2260	N/A	g/L
				.6226g → .1002								
95000118	BY-108 (R)	5	DUP	S95T002571	0		DOSE-02	SOLID		14	N/A	mrad/hour

Final page for worklist # 2897

[illegible] 10-18-95
Analyst Signature Date

[illegible] 10-20-95
Analyst Signature Date

Data Entry KM Garlach 10-19-95

Data Entry Comments: HPT was Jim Evans

BJ II 10-20-95

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# 3409

Analyst: JAM **Instrument:** H2O01 AL11066 **Book #** _____

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 (R) WATER DIGEST 1399->2491, 1396->2492

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H2ODIG01	SOLID	100	100	N/A	g/L
95000104	BY-108 (R)	2	SAMPLE	S95T002491	0	W	H2ODIG01	SOLID	N/A	6.2310		g/L
			.6231g → .100l									
95000104	BY-108 (R)	3	SAMPLE	S95T002491	0		DOSE-02	SOLID	N/A	2.5		mrad/hour
95000104	BY-108 (R)	4	DUP	S95T002491	0	W	H2ODIG01	SOLID	6.2310	6.4820	N/A	g/L
			.6482g → .100l									
95000104	BY-108 (R)	5	DUP	S95T002491	0		DOSE-02	SOLID		3	N/A	mrad/hour
95000104	BY-108 (R)	6	SAMPLE	S95T002492	0	W	H2ODIG01	SOLID	N/A	5.1600		g/L
			.5160g → .100l									
95000104	BY-108 (R)	7	SAMPLE	S95T002492	0		DOSE-02	SOLID	N/A	3.5		mrad/hour
95000104	BY-108 (R)	8	DUP	S95T002492	0	W	H2ODIG01	SOLID	5.1600	5.4440	N/A	g/L
			.5444g → .100l									
95000104	BY-108 (R)	9	DUP	S95T002492	0		DOSE-02	SOLID		3.5	N/A	mrad/hour

Final page for worklist # 3409

JAMurphy 11-12-95
Analyst Signature **Date**

11/12/95
Analyst Signature **Date**

Data Entry Comments: As per chemist instructions 125ml amber poly vials were used. HPT was Scott Corbally
Bernard Griffin II 11-13-95

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# 3605

Analyst: [illegible] **Instrument:** H2O01 SN116355 **Book #** _____

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: BY-108 Water Digest 3706->3707. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIG01	SOLID	RKF 12/4/95 ~~.100~~ 1	.100	N/A	g/L
95000104	BY-108 (R)	2 SAMPLE •2660g → .100l	S95T003707	0	W	H2ODIG01	SOLID	N/A	2.66000		g/L
95000104	BY-108 (R)	3 SAMPLE	S95T003707	0		DOSE-02	SOLID	N/A	2		mrad/hour
95000104	BY-108 (R)	4 DUP •2515g → .100l	S95T003707	0	W	H2ODIG01	SOLID	2.66000	2.5150	N/A	g/L
95000104	BY-108 (R)	5 DUP	S95T003707	0		DOSE-02	SOLID		2.5	N/A	mrad/hour

Final page for worklist # 3605

[illegible] Murphy 12-4-95
Analyst Signature Date

Keith Fulle for Gary LaPlant 12/5/95
Analyst Signature Date

Reviewed by RK Fulle ~~12/4/95~~ 12/5/95

Data Entry Comments: As per chemists instructions 125ml poly amber vials were used. HPT was Joe Valdez

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# 2024

Analyst: ADP/LMH **Instrument:** ACD01A11066 **Book #** WHC 1A/B WHC-2/B BJH 8-23-95

Method: LA-505-159 Rev/Mod B2

Worklist Comment: BY-108 ACD DGST-1390->1483,1404->1484,1399->1485,1396->1486

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	100	100	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	20	20	N/A	g/L
95000104	BY-108 (R)	3	SAMPLE	S95T001483	0	A	ACIDIG01	SOLID	N/A	10.2400		g/L
			1.0240g → 100 ml									
95000104	BY-108 (R)	4	SAMPLE	S95T001483	0		DOSE-02	SOLID	N/A	30	30	mrad/hour
95000104	BY-108 (R)	5	DUP	S95T001483	0	A	ACIDIG01	SOLID	10.2400	10.0900	N/A	g/L
			1.0090g → 100 ml									
95000104	BY-108 (R)	6	DUP	S95T001483	0		DOSE-02	SOLID		30	N/A	mrad/hour
95000104	BY-108 (R)	7	SPK	S95T001483	0	A	ACIDIG01	SOLID	20	20	N/A	g/L
			1.0870g → 100 ml									
95000104	BY-108 (R)	8	SPK	S95T001483	0		DOSE-02	SOLID		30	N/A	mrad/hour
95000104	BY-108 (R)	9	SAMPLE	S95T001484	0	A	ACIDIG01	SOLID	N/A	10.3300		g/L
			1.0330g → 100 ml									
95000104	BY-108 (R)	10	SAMPLE	S95T001484	0		DOSE-02	SOLID	N/A	30	30	mrad/hour
95000104	BY-108 (R)	11	DUP	S95T001484	0	A	ACIDIG01	SOLID	10.3300	10.8200	N/A	g/L
			1.0320g → 100 ml									
95000104	BY-108 (R)	12	DUP	S95T001484	0		DOSE-02	SOLID		30	N/A	mrad/hour
95000104	BY-108 (R)	13	SAMPLE	S95T001485	0	A	ACIDIG01	SOLID	N/A	10.0500		g/L
			1.0050g → 100 ml									
95000104	BY-108 (R)	14	SAMPLE	S95T001485	0		DOSE-02	SOLID	N/A	30	30	mrad/hour
95000104	BY-108 (R)	15	DUP	S95T001485	0	A	ACIDIG01	SOLID	10.0500	10.4150	N/A	g/L
			1.0410g → 100 ml									
95000104	BY-108 (R)	16	DUP	S95T001485	0		DOSE-02	SOLID		30	N/A	mrad/hour
95000104	BY-108 (R)	17	SAMPLE	S95T001486	0	A	ACIDIG01	SOLID	N/A	10.4000		g/L
			1.0400g → 100 ml									
95000104	BY-108 (R)	18	SAMPLE	S95T001486	0		DOSE-02	SOLID	N/A	100	100	mrad/hour

Data Entry Comments: 1483, Sam & Dup, Spike 1484 Sam & Dup
1485 Sam. & Dup 1% Solids
Bethard Giff II 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# 2024

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000104	BY-108 (R)	19 DUP	S95T001486	0 A	ACIDIG01	SOLID	10.4000	10.8000	N/A	g/L
		1.0800g → 100ml								
95000104	BY-108 (R)	20 DUP	S95T001486	0	DOSE-02	SOLID		100	N/A	mrad/hour
95000104	BY-108 (R)	21 SPK	S95T001486	0 A	ACIDIG01	SOLID	20	20	N/A	g/L (10.3460g/l)
		1.0346g → 100ml								
95000104	BY-108 (R)	22 SPK	S95T001486	0	DOSE-02	SOLID	8-24-95	100	N/A	mrad/hour

Final page for worklist # 2024

8-18-95
Analyst Signature Date

8-18-95
Analyst Signature Date

Data Entry Comments: HPT Bill Bishop
ATR 8-24-95
Bernard Griffin II 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.

HNC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2076

Analyst: Cmh **Instrument:** ACD01 AL11066 **Book #** WHC1A/G 43WHC1AR10 WHC2/G 3MWHC2R1G

Method: LA-505-159 Rev/Mod B-2

Worklist Comment: BY-108 ACD DGST - 1431->1487, 1432->1488, 1433->1489

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	100	100	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	20	20	N/A	~~g/L~~ (BLK) 8-30-95 DF
95000104	BY-108 (R)	3	SAMPLE	S95T001487	0	A	ACIDIG01	SOLID	N/A	10.0100		g/L
			1.0010g → .100ℓ									
95000104	BY-108 (R)	4	SAMPLE	S95T001487	0		DOSE-02	SOLID	N/A	30		mrad/hour
95000104	BY-108 (R)	5	DUP	S95T001487	0	A	ACIDIG01	SOLID	10.0100	10.0830	N/A	g/L
			1.0083g → .100ℓ									
95000104	BY-108 (R)	6	DUP	S95T001487	0		DOSE-02	SOLID	30	30	N/A	mrad/hour
95000104	BY-108 (R)	7	SAMPLE	S95T001488	0	A	ACIDIG01	SOLID	N/A	10.6320		g/L
			1.0632g → .100ℓ									
95000104	BY-108 (R)	8	SAMPLE	S95T001488	0		DOSE-02	SOLID	N/A	30		mrad/hour
95000104	BY-108 (R)	9	DUP	S95T001488	0	A	ACIDIG01	SOLID	10.6320	10.7890	N/A	g/L
			1.0789g → .100ℓ									
95000104	BY-108 (R)	10	DUP	S95T001488	0		DOSE-02	SOLID	30	30	N/A	mrad/hour
95000104	BY-108 (R)	11	SAMPLE	S95T001489	0	A	ACIDIG01	SOLID	N/A	10.2890		g/L
			1.0289g → .100ℓ									
95000104	BY-108 (R)	12	SAMPLE	S95T001489	0		DOSE-02	SOLID	N/A	30		mrad/hour
95000104	BY-108 (R)	13	DUP	S95T001489	0	A	ACIDIG01	SOLID	10.2890	10.3620	N/A	g/L
			1.0362g → .100ℓ									
95000104	BY-108 (R)	14	DUP	S95T001489	0		DOSE-02	SOLID	30	30	N/A	mrad/hour
95000104	BY-108 (R)	15	SPK	S95T001489	0	A	ACIDIG01	SOLID	DF: 20 ~~10.544~~ (BLK) 8-30-95	DF: 20	N/A	g/L (10.5440g/ℓ)
			1.0544g → .100ℓ									
95000104	BY-108 (R)	16	SPK	S95T001489	0		DOSE-02	SOLID	30	30	N/A	mrad/hour

Data Entry Comments: ~~HPT BJH~~ 9-5-95

~~Bernard Griffin II~~ 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.

LABCORE Data Entry Template for Worklist# 2076

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

Final page for worklist # 2076

Analyst Signature Date 8-30-95

Analyst Signature Date 8-1-95

Data Entry Comments:

Bernard Griffin II 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.

LABCORE Data Entry Template for Worklist# 2077

Analyst: lmh **Instrument:** ACD01 A111066 **Book #** WHC1A/G4JWHC1AU10 WHC2/G3MWHC2UIG

Method: LA-505-159 Rev/Mod C-0

Worklist Comment: BY-108 ACD DGST - 1419>1490, 1420>1491, 1421>1492, 1422>1493

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	100	100	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	DF=20	20	N/A	g/L
95000104	BY-108 (R)	3	SAMPLE	S95T001490	0	A	ACIDIG01	SOLID	N/A	10.4830		g/L
1.0483g → 100 ml												
95000104	BY-108 (R)	4	SAMPLE	S95T001490	0		DOSE-02	SOLID	N/A	120		mrad/hour
95000104	BY-108 (R)	5	DUP	S95T001490	0	A	ACIDIG01	SOLID	10.4830	10.4640	N/A	g/L
1.0464 g → 100 ml												
95000104	BY-108 (R)	6	DUP	S95T001490	0		DOSE-02	SOLID	N/A	90	N/A	mrad/hour
95000104	BY-108 (R)	7	SAMPLE	S95T001491	0	A	ACIDIG01	SOLID	N/A	10.3420		g/L
1.0342g → 100 ml												
95000104	BY-108 (R)	8	SAMPLE	S95T001491	0		DOSE-02	SOLID	N/A	180		mrad/hour
95000104	BY-108 (R)	9	DUP	S95T001491	0	A	ACIDIG01	SOLID	10.3420	10.3310	N/A	g/L
1.0331g → 100 ml												
95000104	BY-108 (R)	10	DUP	S95T001491	0		DOSE-02	SOLID	N/A ~~180~~	190	N/A	mrad/hour
95000104	BY-108 (R)	11	SAMPLE	S95T001492	0	A	ACIDIG01	SOLID	N/A	10.5640		g/L
1.0564g → 100 ml												
95000104	BY-108 (R)	12	SAMPLE	S95T001492	0		DOSE-02	SOLID	N/A	180		mrad/hour
95000104	BY-108 (R)	13	DUP	S95T001492	0	A	ACIDIG01	SOLID	10.5640	10.5700	N/A	g/L
1.0570g → 100 ml												
95000104	BY-108 (R)	14	DUP	S95T001492	0		DOSE-02	SOLID	N/A	240	N/A	mrad/hour
95000104	BY-108 (R)	15	SAMPLE	S95T001493	0	A	ACIDIG01	SOLID	N/A	9.2890		g/L
~~0.9720g~~ 0.9289g → 100 ml												
95000104	BY-108 (R)	16	SAMPLE	S95T001493	0		DOSE-02	SOLID	N/A	320		mrad/hour
95000104	BY-108 (R)	17	DUP	S95T001493	0	A	ACIDIG01	SOLID	9.2890	9.2720	N/A	g/L
0.9272g → 100 ml												
95000104	BY-108 (R)	18	DUP	S95T001493	0		DOSE-02	SOLID	N/A	500	N/A	mrad/hour

Data Entry Comments:
Samples were an extreamely sticky clay like substance (non-homogenious). Samples reacted excessively to addition of acids and peroxide and appeared very volatile. Samples did not digest well and ~~samples~~ solids carried through even after filtering. 09/06/95 emb

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.

Bernard Griffin II 9-7-95

LABCORE Data Entry Template for Worklist# 2077

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000104	BY-108 (R)	19 SPK	S95T001493	0 A	ACIDIG01	SOLID	20	20	N/A	g/L (9.7200 g/L)
95000104	BY-108 (R)	20 SPK	S95T001493	0	DOSE-02	SOLID	N/A	500	N/A	mrad/hour

9/1/95 ~~0.928~~ 0.9720g → 100 ml

Final page for worklist # 2077

Analyst Signature Date 9-1-95

Analyst Signature Date 9-6-95

Verified by [illegible]
9-7-95
BJH
9-7-95

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# 2860

Analyst: lmh **Instrument:** ACD01 AU1066 **Book #** WHC1A/G4JWHC1AU1O WHC2/G3MWHC2U1G

Method: LA-505-159 Rev/Mod C-0

Worklist Comment: BY-108 ACID DGST - 1966->2162, 1967->2163, 1968->2164

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	100	100	N/A	g/L
		2 STD-PREP 5ml of each → .100l			ACIDIG01	SOLID	20	20	N/A	g/L
95000118	BY-108 (R)	3 SAMPLE .7395g → .100l	S95T002162	0 A	ACIDIG01	SOLID	N/A	7.3950		g/L
95000118	BY-108 (R)	4 SAMPLE	S95T002162	0	DOSE-02	SOLID	N/A	3		mrad/hour
95000118	BY-108 (R)	5 DUP .7378g → .100l	S95T002162	0 A	ACIDIG01	SOLID	7.3950	7.3780	N/A	g/L 10-25-95
95000118	BY-108 (R)	6 DUP	S95T002162	0	DOSE-02	SOLID		~~3.5~~ 7	N/A	mrad/hour
95000118	BY-108 (R)	7 SPK .8712g → .100l	S95T002162	0 A	ACIDIG01	SOLID	~~7.3780~~ 20	~~8.7120~~ 20 10-30-95	N/A	g/L
95000118	BY-108 (R)	8 SPK	S95T002162	0	DOSE-02	SOLID		8	N/A	mrad/hour
95000118	BY-108 (R)	9 SAMPLE .7358g → .100l	S95T002163	0 A	ACIDIG01	SOLID	N/A	7.3580		g/L
95000118	BY-108 (R)	10 SAMPLE	S95T002163	0	DOSE-02	SOLID	N/A	5		mrad/hour
95000118	BY-108 (R)	11 DUP .6666g → .100l	S95T002163	0 A	ACIDIG01	SOLID	7.3580	6.6666	N/A	g/L
95000118	BY-108 (R)	12 DUP	S95T002163	0	DOSE-02	SOLID		3.5	N/A	mrad/hour
95000118	BY-108 (R)	13 SAMPLE .9460g → .100l	S95T002164	0 A	ACIDIG01	SOLID	N/A	9.4600		g/L
95000118	BY-108 (R)	14 SAMPLE	S95T002164	0	DOSE-02	SOLID	N/A	7		mrad/hour
95000118	BY-108 (R)	15 DUP .9752g → .100l	S95T002164	0 A	ACIDIG01	SOLID	9.4600	9.7520	N/A	g/L
95000118	BY-108 (R)	16 DUP	S95T002164	0	DOSE-02	SOLID		9	N/A	mrad/hour

Data Entry Comments: <1% Solids left after digestion for all Sam

Bernard Griffin II 10-30-95

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# 2860

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

Final page for worklist # 2860

Analyst Signature Date 10-24-95

Analyst Signature Date 10-26-95

Verified By 10/28/95

HPT: Gerry Gunonsky

Dose Rate for whole batch: 65 mrad/hr

Data Entry Comments:
NOTE: Varying weights of Samples has to do with total ammount of sample to begin digestion. Due to chemist instruction we kept the ending volume consistant at 100ml thus voiding step 8.15.1 in LA-505-159.

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.

Bettman Griffin II 10-30-95

LABCORE Data Entry Template for Worklist# 2861

Analyst: lmb **Instrument:** ACD01 AL11066 **Book #** WHC1A/G4J WHC1A010 WHC2/G3MWHC2J017G

Method: LA-505-159 Rev/Mod C-0

Worklist Comment: BY-108 ACID DGST - 1925->2161

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	.100	.100	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	20	20	N/A	g/L
95000118	BY-108 (R)	3 SAMPLE	S95T002161	0 A	ACIDIG01	SOLID	N/A	10.0230		g/L
		1.0023g → .100l								
95000118	BY-108 (R)	4 SAMPLE	S95T002161	0	DOSE-02	SOLID	N/A	2		mrad/hour
95000118	BY-108 (R)	5 DUP	S95T002161	0 A	ACIDIG01	SOLID	10.0230	10.810	N/A	g/L
		1.0181g → .100l								
95000118	BY-108 (R)	6 DUP	S95T002161	0	DOSE-02	SOLID		2	N/A	mrad/hour
95000118	BY-108 (R)	7 SPK	S95T002161	0 A	ACIDIG01	SOLID	~~10.5220~~ 20	20	N/A	g/L 10.5220g/l
		1.0522g → .100l								
95000118	BY-108 (R)	8 SPK	S95T002161	0	DOSE-02	SOLID		2	N/A	mrad/hour

Final page for worklist # 2861

Analyst Signature 10-25-95 Date

Analyst Signature 10-27-95 Date

HPT Sam Shemal
Dose Rate for batch: 1.2 mrad/hr

Data Entry Comments: Sample 10-25-95 is not homogeneous. It has crystal rocks and sand like substance in it. All this disolved during digestion. < 1% solids left after digestion.

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.

II 150 10-31-95

LABCORE Data Entry Template for Worklist# 2862

Analyst: lmh **Instrument:** ACD01 AL110 66 **Book #** WHCTA/WHCTA010 WHC2/G3M WHC2N1G

Method: LA-505-159 Rev/Mod C-0

Worklist Comment: BY-108 ACID DGST - 1969->2165, 1970->2166, 1971->2167

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	100	100	N/A	g/L
		2 STD-PREP 5 ml of each → .100 l			ACIDIG01	SOLID	20	20	N/A	g/L
95000118	BY-108 (R)	3 SAMPLE .9269 g → .100 l	S95T002165	0 A	ACIDIG01	SOLID	N/A	9.2690		g/L
95000118	BY-108 (R)	4 SAMPLE	S95T002165	0	DOSE-02	SOLID	N/A	5		mrad/hour
95000118	BY-108 (R)	5 DUP .9366 g → .100 l	S95T002165	0 A	ACIDIG01	SOLID	9.2690	9.3660	N/A	g/L
95000118	BY-108 (R)	6 DUP	S95T002165	0	DOSE-02	SOLID		4	N/A	mrad/hour
95000118	BY-108 (R)	7 SPK .9193 g → .100 l	S95T002165	0 A	ACIDIG01	SOLID	~~9.3660~~ 20 BZII	~~9.1930~~ 20 10-30-95	N/A	g/L
95000118	BY-108 (R)	8 SPK	S95T002165	0	DOSE-02	SOLID		5	N/A	mrad/hour
95000118	BY-108 (R)	9 SAMPLE .9415 g → .100 l	S95T002166	0 A	ACIDIG01	SOLID	N/A	9.4150		g/L
95000118	BY-108 (R)	10 SAMPLE	S95T002166	0	DOSE-02	SOLID	N/A	8		mrad/hour
95000118	BY-108 (R)	11 DUP .9834 g → .100 l	S95T002166	0 A	ACIDIG01	SOLID	9.4150	9.8340	N/A	g/L
95000118	BY-108 (R)	12 DUP	S95T002166	0	DOSE-02	SOLID		8	N/A	mrad/hour
95000118	BY-108 (R)	13 SAMPLE .6468 g → .100 l	S95T002167	0 A	ACIDIG01	SOLID	N/A	6.4680		g/L
95000118	BY-108 (R)	14 SAMPLE	S95T002167	0	DOSE-02	SOLID	N/A	5		mrad/hour
95000118	BY-108 (R)	15 DUP .5712 g → .100 l	S95T002167	0 A	ACIDIG01	SOLID	6.4680	5.7120	N/A	g/L
95000118	BY-108 (R)	16 DUP	S95T002167	0	DOSE-02	SOLID		6	N/A	mrad/hour

Data Entry Comments:

- Due to chemist instruction, step 8.15.1 in LA-505-159/C-0 was not done & that is why all ending volumes are 100 ml.
- < 1% solids after digestion for all samples & QC.

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 Griffin II 10-30-95

LABCORE Data Entry Template for Worklist# 2862

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

Final page for worklist # 2862

Analyst Signature Date 10-24-95

Analyst Signature Date 10-26-95

Verified By MLC 10/29/95

HPT: Jerry Gununsky

Dose Rate for batch is: 60 mrad/hr

Data Entry Comments:
ALL - Samples looked like they were not homogeneous.
- They had crystals in the sludge as well as small rocks. All of this dissolved during digestion.

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 Griffin II 10-30-95

LABCORE Data Entry Template for Worklist# 2863

Analyst: lab **Instrument:** ACD01 AL11066 **Book #** WHC1A/G4JWHC1A010 WHC-2/G3MWHC2N1G

Method: LA-505-159 Rev/Mod C-0

Worklist Comment: BY-108 ACID DGST - 1972->2168, 1973->2169, 1974->2170

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	100	100	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	20	20	N/A	g/L
95000118	BY-108 (R)	3	SAMPLE	S95T002168	0	A	ACIDIG01	SOLID	N/A	6.6920		g/L
			.6692g → .100l									
95000118	BY-108 (R)	4	SAMPLE	S95T002168	0		DOSE-02	SOLID	N/A	3		mrad/hour
95000118	BY-108 (R)	5	DUP	S95T002168	0	A	ACIDIG01	SOLID	6.6920	7.1970	N/A	g/L
			.7197g → .100l									
95000118	BY-108 (R)	6	DUP	S95T002168	0		DOSE-02	SOLID		2	N/A	mrad/hour
95000118	BY-108 (R)	7	SPK	S95T002168	0	A	ACIDIG01	SOLID	~~3.660~~ .20	.20	N/A	g/L 3.6600
			.3660g → .100l									
95000118	BY-108 (R)	8	SPK	S95T002168	0		DOSE-02	SOLID		2	N/A	mrad/hour
95000118	BY-108 (R)	9	SAMPLE	S95T002169	0	A	ACIDIG01	SOLID	N/A	5.1110		g/L
			.5111g → .100l									
95000118	BY-108 (R)	10	SAMPLE	S95T002169	0		DOSE-02	SOLID	N/A	6		mrad/hour
95000118	BY-108 (R)	11	DUP	S95T002169	0	A	ACIDIG01	SOLID	5.1110	5.4480	N/A	g/L
			.5448g → .100l									
95000118	BY-108 (R)	12	DUP	S95T002169	0		DOSE-02	SOLID		7	N/A	mrad/hour
95000118	BY-108 (R)	13	SAMPLE	S95T002170	0	A	ACIDIG01	SOLID	N/A	10.6300		g/L
			1.0620g → .100l									
95000118	BY-108 (R)	14	SAMPLE	S95T002170	0		DOSE-02	SOLID	N/A	14		mrad/hour
95000118	BY-108 (R)	15	DUP	S95T002170	0	A	ACIDIG01	SOLID	10.6300	10.9010	N/A	g/L
			1.0401g → .100l									
95000118	BY-108 (R)	16	DUP	S95T002170	0		DOSE-02	SOLID		11	N/A	mrad/hour

For ALL Sam. & Q.C.:
< 1% Solids.

Data Entry Comments: HPT: Jim Evans
Dose Rate for Can 1 : 3 mrad/hr
Dose Rate for Can 2 : 15 mrad/hr

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 Griffin II 10-20-95

LABCORE Data Entry Template for Worklist# 2863

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

Final page for worklist # 2863

10-18-95
Analyst Signature Date

Bernard Griffin II 10-20-95
Analyst Signature Date

Data entry K M Farrell 10-20-95

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# 2864

Analyst: lmh **Instrument:** ACD01 AL11066 **Book #** WHC1A/G4JWHC1A1G
WHC2/G3MWHC2R1G

Method: LA-505-159 Rev/Mod C-0

Worklist Comment: BY-108 ACID DGST - 1975->2171, 1976->2172

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	100	100	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	20	20	N/A	g/L
95000118	BY-108 (R)	3	SAMPLE	S95T002171	0	A	ACIDIG01	SOLID	N/A	2.0550		g/L
			.3055g → .100ℓ									
95000118	BY-108 (R)	4	SAMPLE	S95T002171	0		DOSE-02	SOLID	N/A	17		mrad/hour
95000118	BY-108 (R)	5	DUP	S95T002171	0	A	ACIDIG01	SOLID	8.0550	8.1270	N/A	g/L
			.8127g → .100ℓ									
95000118	BY-108 (R)	6	DUP	S95T002171	0		DOSE-02	SOLID		11	N/A	mrad/hour
95000118	BY-108 (R)	7	SPK	S95T002171	0	A	ACIDIG01	SOLID	20	20	N/A	g/L 8.3430
			.8348g → .100ℓ									
95000118	BY-108 (R)	8	SPK	S95T002171	0		DOSE-02	SOLID		22	N/A	mrad/hour
95000118	BY-108 (R)	9	SAMPLE	S95T002172	0	A	ACIDIG01	SOLID	N/A	1.9430		g/L
			.1948g → .100ℓ									
95000118	BY-108 (R)	10	SAMPLE	S95T002172	0		DOSE-02	SOLID	N/A	42		mrad/hour
95000118	BY-108 (R)	11	DUP	S95T002172	0	A	ACIDIG01	SOLID	1.9480	2.0760	N/A	g/L
			.2076g → .100ℓ									
95000118	BY-108 (R)	12	DUP	S95T002172	0		DOSE-02	SOLID		52	N/A	mrad/hour

Final page for worklist # 2864

[signature] 10-17-95
Analyst Signature **Date**

Bertrand Griffin II 10-20-95
Analyst Signature **Date**

FOR ALL JAM. & Q.C.
< 1% Solids.

Data Entry KM Garland 10-20-95

Data Entry Comments: HPT: Jim Evans
Dose Rate for batch: 15 mrad/hr
BGII 10-20-95

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# 2865

Analyst: lmh **Instrument:** ACD01 AL11066 **Book #** WHC1A/G4JWHC1AU10 WHC2/G3MWHC2U1G

Method: LA-505-159 Rev/Mod C-0

Worklist Comment: BY-108 ACID DGST - 1977->2174, 1978->2175

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	100	100	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	20	20	N/A	g/L
95000118	BY-108 (R)	3	SAMPLE	S95T002174	0	A	ACIDIG01	SOLID	N/A	2.1060		g/L
			.2106g → .100l									
95000118	BY-108 (R)	4	SAMPLE	S95T002174	0		DOSE-02	SOLID	N/A	52		mrad/hour
95000118	BY-108 (R)	5	DUP	S95T002174	0	A	ACIDIG01	SOLID	2.1060	1.9280	N/A	g/L
			.1928g → .100l									
95000118	BY-108 (R)	6	DUP	S95T002174	0		DOSE-02	SOLID		60	N/A	mrad/hour
95000118	BY-108 (R)	7	SPK	S95T002174	0	A	ACIDIG01	SOLID	20	20	N/A	g/L 2.1510g/l
			.2151g → .100l									
95000118	BY-108 (R)	8	SPK	S95T002174	0		DOSE-02	SOLID		55	N/A	mrad/hour
95000118	BY-108 (R)	9	SAMPLE	S95T002175	0	A	ACIDIG01	SOLID	N/A	3.3550		g/L
			.3355g → .100l									
95000118	BY-108 (R)	10	SAMPLE	S95T002175	0		DOSE-02	SOLID	N/A	150		mrad/hour
95000118	BY-108 (R)	11	DUP	S95T002175	0	A	ACIDIG01	SOLID	3.3550	3.3700	N/A	g/L
			.3370g → .100l									
95000118	BY-108 (R)	12	DUP	S95T002175	0		DOSE-02	SOLID		180	N/A	mrad/hour

Final page for worklist # 2865

[signature] 10-18-95
Analyst Signature Date

[signature] 10-20-95
Analyst Signature Date

Data Entry [signature] 10-20-95

SAM, & SPIKE OF: 2174 - DUP & SPIKE HAD A THIN BROWN FILM OF SOLIDS LEFT OVER AFTER DGSTION. SAMPLE LOOKED CLEAR. THIS FILM FLOATED ON TOP OF SPIKE & DUP.
DUP,
NOTE: SAM AND DUP DIDN'T LOOK ALIKE: →

Data Entry Comments: 2175 - SAM & DUP HAD <1% SOLIDS LEFT OVER THAT WERE DARK BROWN IN COLOR.

HPT: Jim Evans Dose Rate for Batch: 12 mrad/hr

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] 10-20-95

THIS PAGE INTENTIONALLY
LEFT BLANK.