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

Document number: SD-WM-DP-099

Section 2 **of** 6

Title: FINAL REPORT FOR TANK 241-C-103 PUSH MODE SAMPLE CORES 63 and 66

Date: 9/29/95 **Revision:** 1

Originator: K.E. BELL
Co: WHC

Recipient:
Co:

References: ECN-625705

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ATTACHMENT 4

PHOTOGRAPHS

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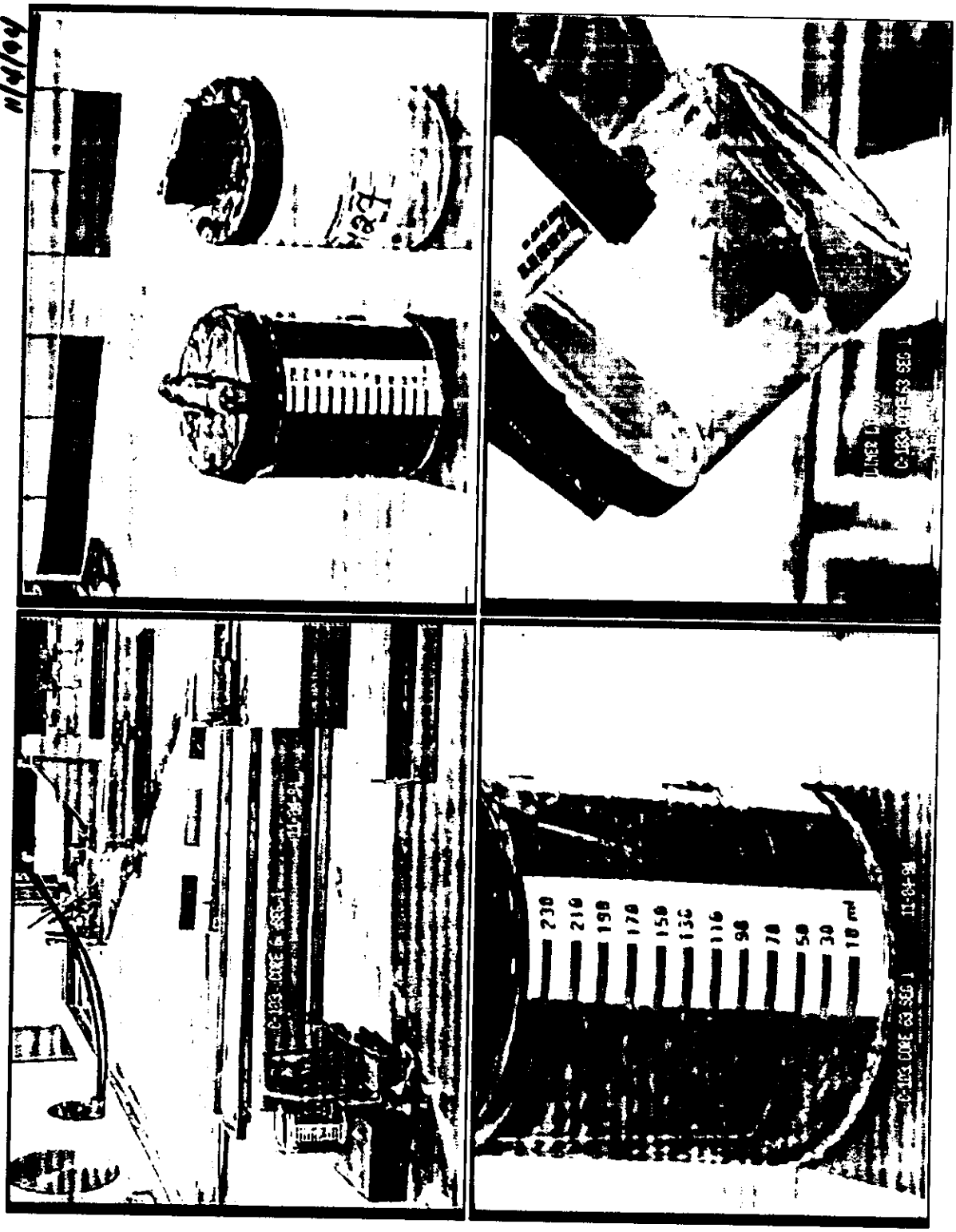
C-103 Core 63 Seg #1

11/4/94



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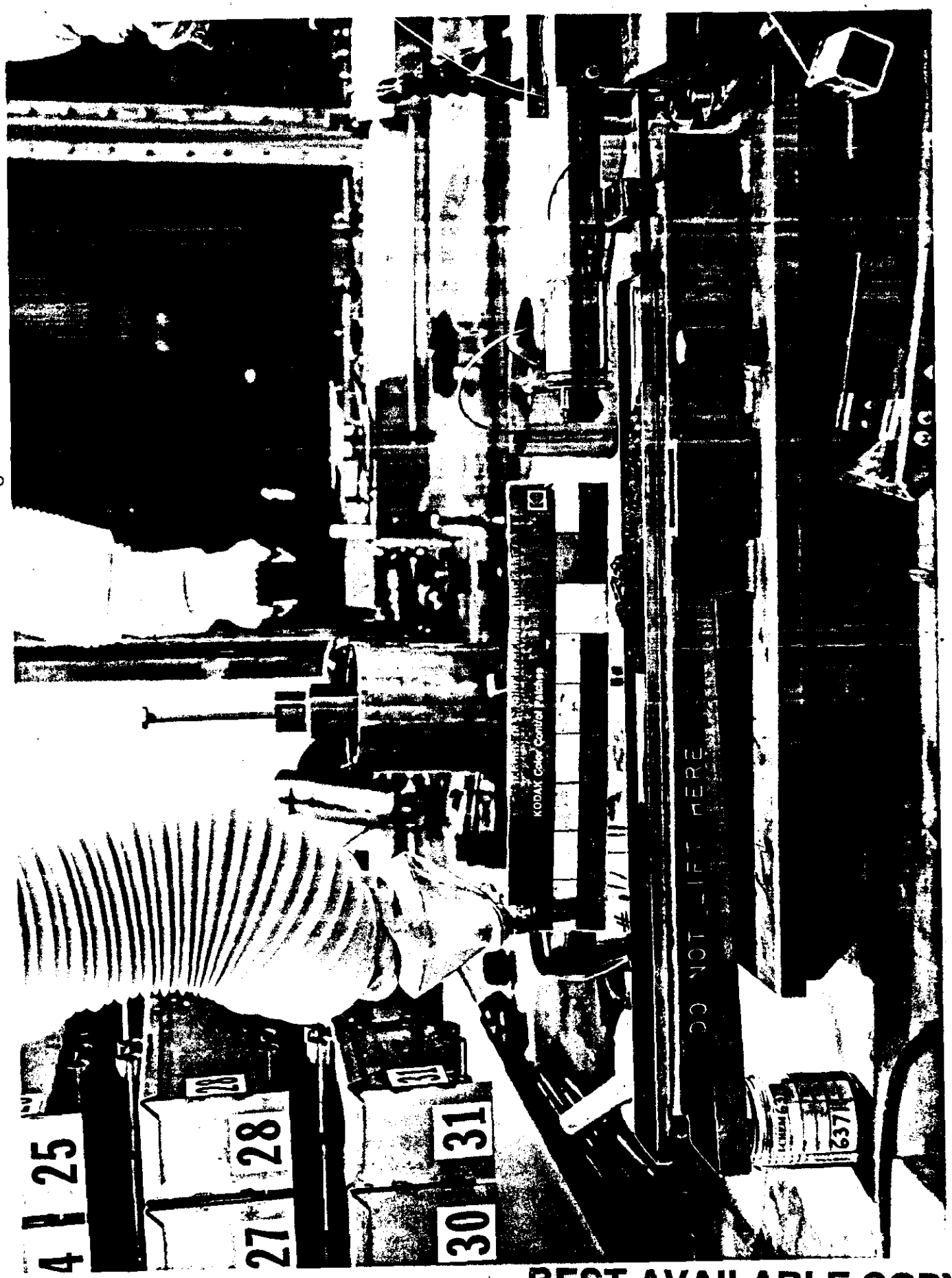
C-103, Core 63, Segment 2



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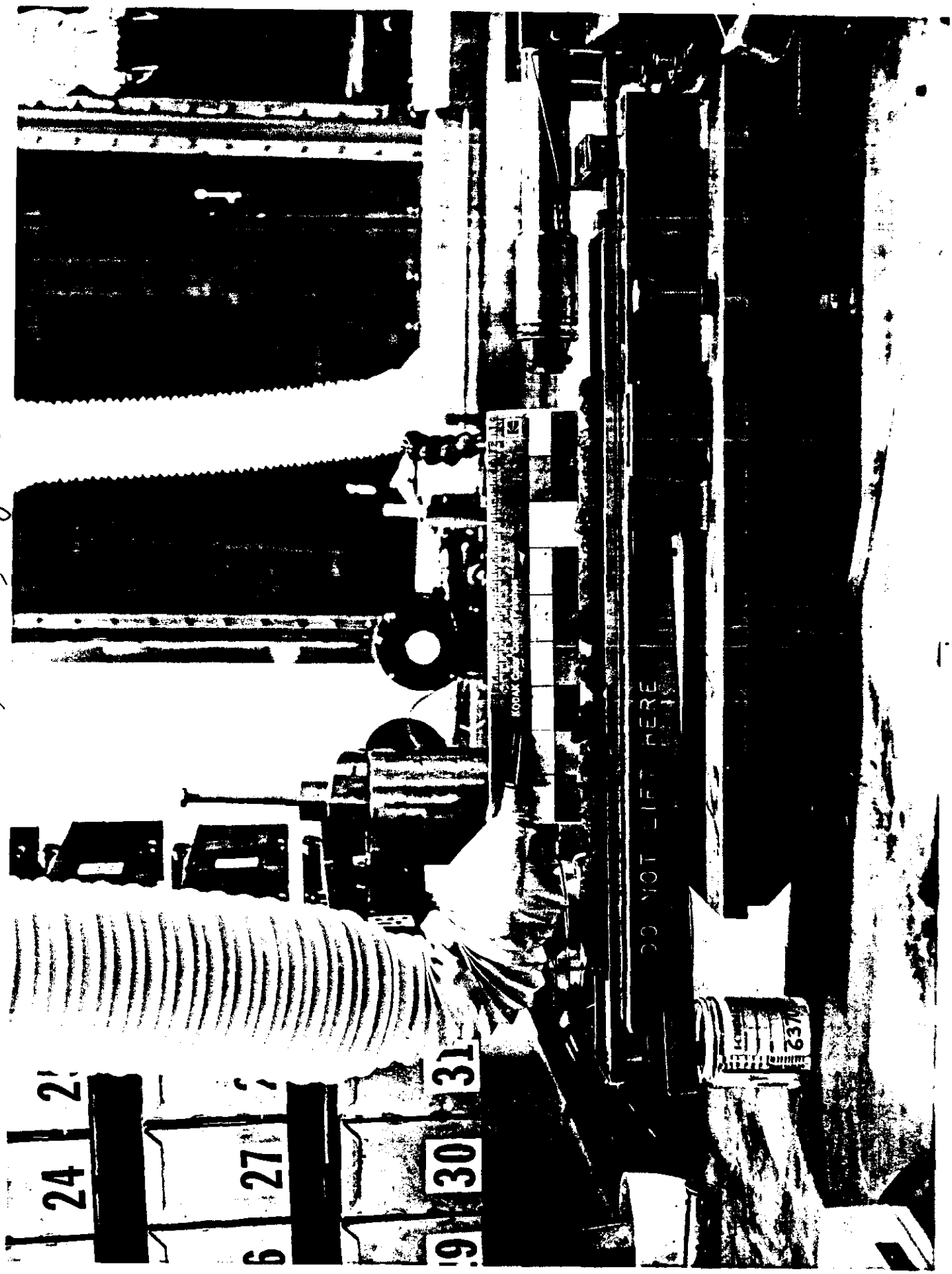
C-103, Core 63, segment 3



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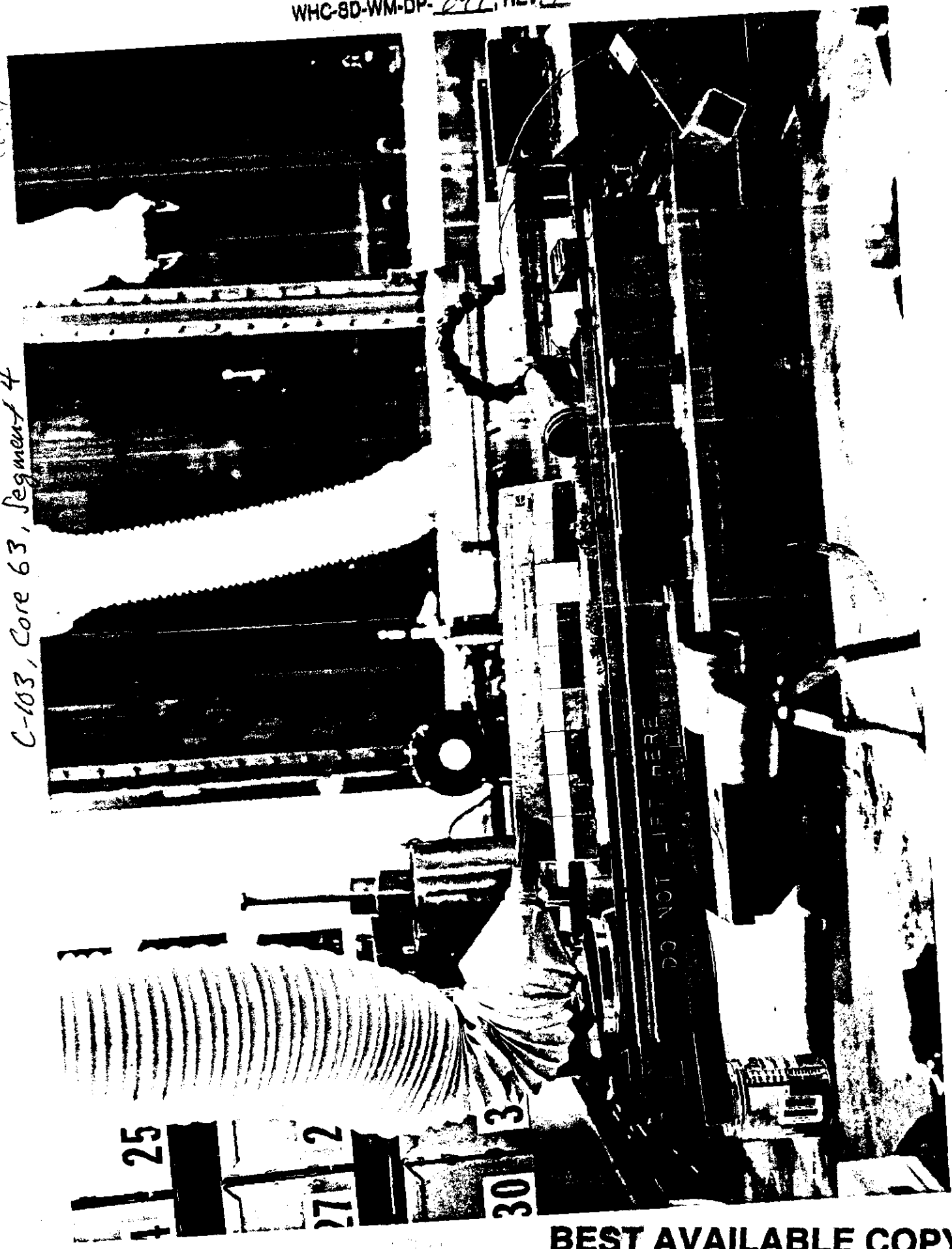
C-103, Core 63, Segment 4



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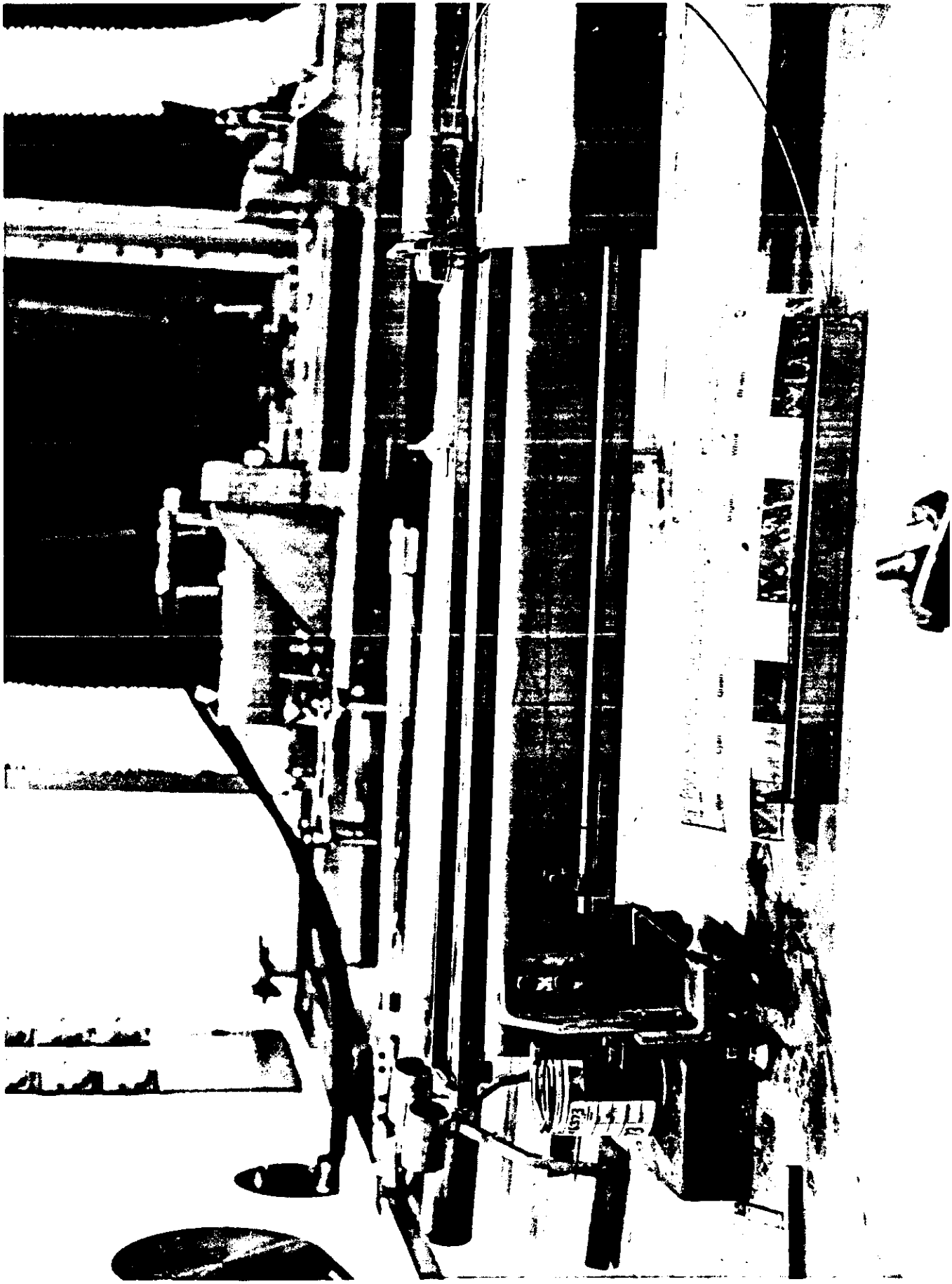

C403 Core 66 Segment 1

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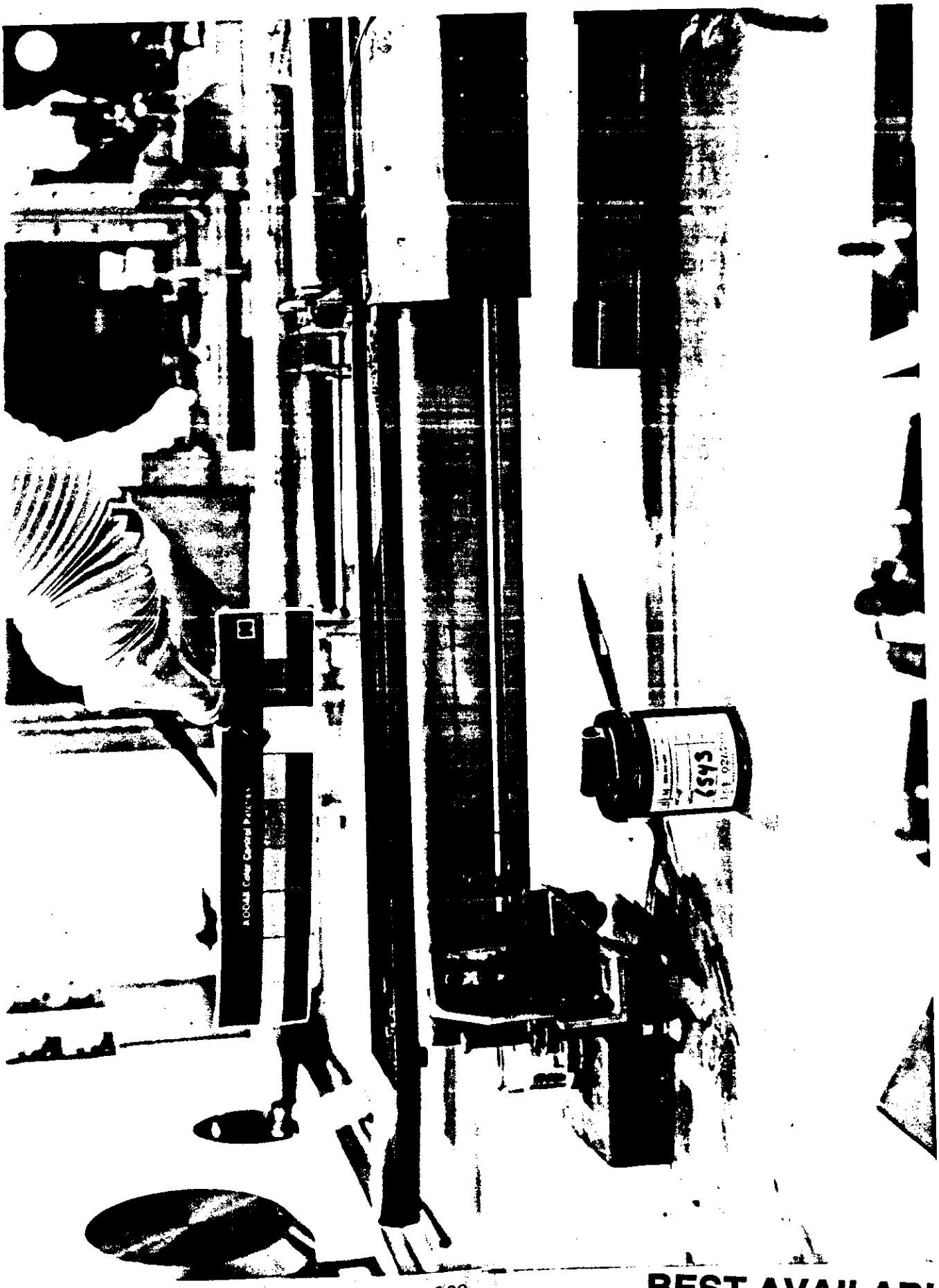

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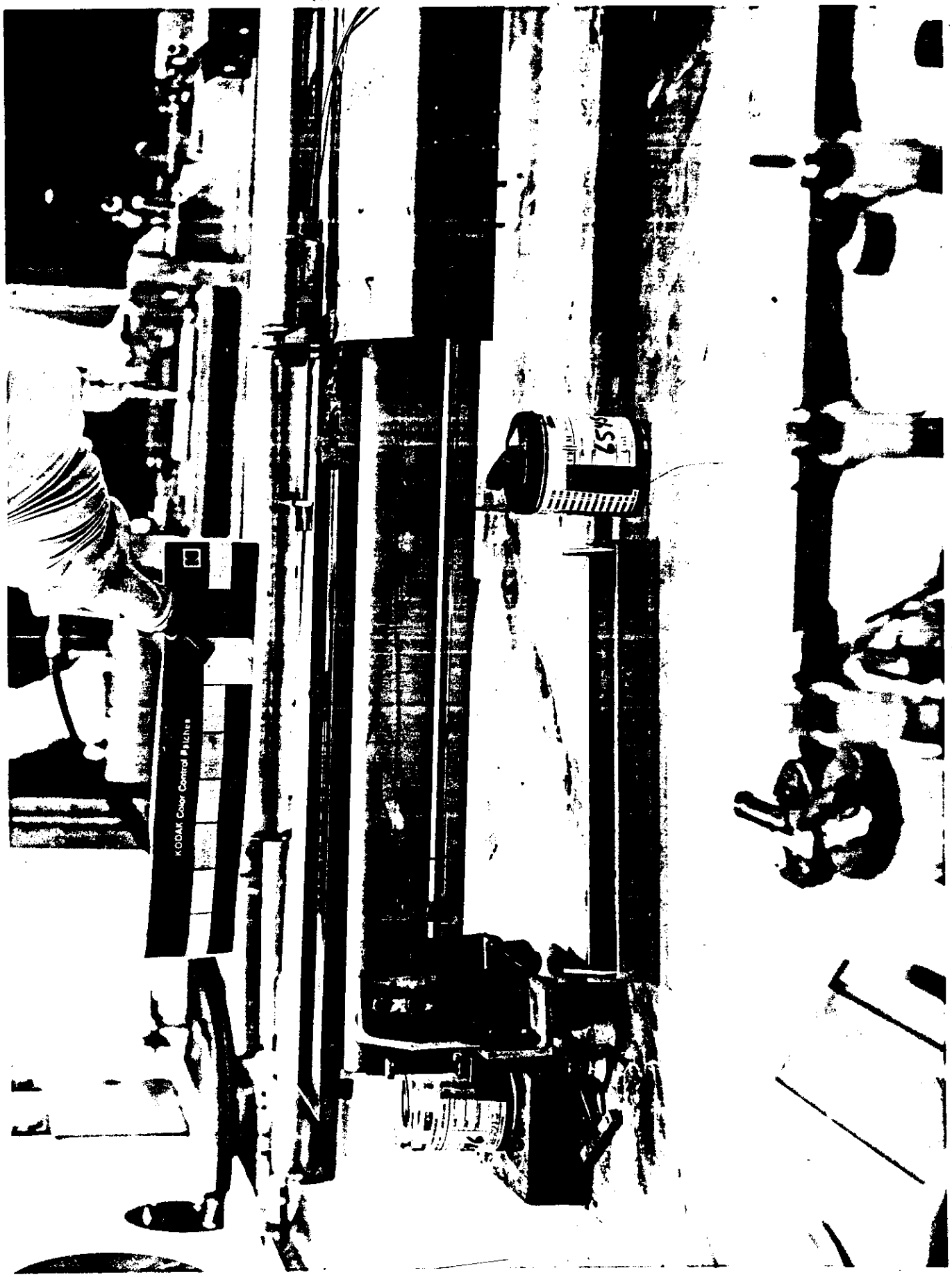
C-103 Core 66 Segment #4



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ATTACHMENT 5

SUBSAMPLING WORKSHEETS

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From Laboratory Notebook WHC-N-1079

C-103 Core 63 Segment #1 11/4/94

JAR # 6236 - Drainable Liquid WHC-SD-WM-DP-099, REV. 1

Gross Weight of jar #6236 = 452.7 grams
tare Weight of jar #6236 = 226.9 grams
Net Weight = 225.8 grams

2- phases
- Organic layer (~20mls) = dark brown
- Aqueous layer (~200mls) = light brown
(similar to ~~dad~~ RKT 11/14/94 dark "tea" color)

11/10/94 11/10/94

Transfer samples from JAR #6236

JAR #6236 (250 mL JAR size) - DRAINABLE LIQUID from Core 63 Segment #1. Two phases are presents. The top layer is a dark brown organic. The lower level is an aqueous solution which is light brown in color.

Vial 7/B 1/25/95
~~JAR~~ # 6192 (20 mL VIAL SIZE) - ORGANIC PHASE

- ORGANIC PHASE RKT 11/10/94
VIAL #6192
41.3 grams Gross Weight
27.6 grams tare Weight
C103C6351-ORG 13.7 grams of ORGANIC

VIAL # 6193 (20 mL VIAL size) · Aqueous Phase
- Aqueous Phase
VIAL # 6193
46.4 grams Gross Weight
27.7 grams tare Weight
18.1 grams Net Weight

8

From Laboratory Notebook WHC-N-1079

WHC-SD-WM-DP-099, REV. 1

11/10/94 ARCHIVE AQEOUS SAMPLE

C-103 CORE 63 SEG #1 ARCHIVE ~~8~~ 11/10/94 Aqueous

VIAL # 7024 (40 mL VIAL SIZE)

71.5 grams gross weight
33.2 grams tare weight
38.3 grams net weight

1-19-95

From Laboratory Notebook WHC-N-1079

1/25/95

C103 CORE 63 Seg #2 Drainable Liquid

* Transferred top layer of drainable liquid jar 6371 (250mL) to 40 mL vial for archive. Small amount of organic material noticed in jar.

6371 250mL jar —ARCHIVE→ 6452 40mL vial

# 6371 (250mL)	# 6452 (40mL)
initial weight: 396.09 grams	initial weight: 25.21 grams
final weight: 364.82 grams	final weight: 53.35 grams
31.27 grams transferred	net weight: 28.14 grams obtained in jar Vial # 6452

Lost in transfer: _____

6371 250mL jar —LABORATORY ANALYSES→ 6274 (20mL)

# 6371 (250mL)	Vial # 6274
initial weight: 364.82 grams	initial weight: 27.36 g
final weight: 355.69 grams	final weight: 36.19 g
net weight: 9.13 grams transferred	net weight: 8.83 g obtained

Lost in transfer: _____

Keith Fuller 1/25/95

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

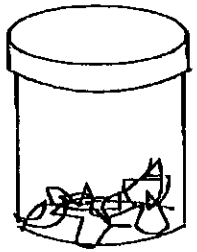
KB

Subsample Worksheet

Date: 2/3/95

Tank: C-103 Core: 63 Segment: 2 Riser: 2 Requester: K. Bell

Homogenization Time (Min.): N/A



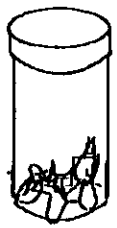
Jar#: ~~6452~~ KB 6371
Jar/Vial size: 250 mL
Initial weight: 355.053 g
Final Weight: 353.052 g
Net Weight: 2.001 g (after final subsample taken)

about 1 mL. See below

134

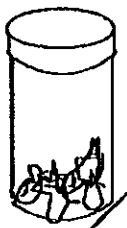
Start time:
Finish time:

for analysis



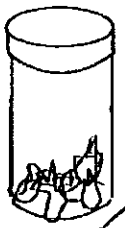
Jar#: 6269
Jar/Vial size: 20 mL
Initial weight: 27.676 g
Final Weight: 29.538 g
Net Weight: 1.862 g

Start time:
Finish time:



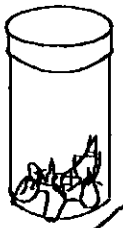
Jar#: N/A KB
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Jar#: N/A KB
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Jar#: N/A KB
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Special Instructions: 1) Remove about 1 ml for analysis. Try to take sample from top of liquid

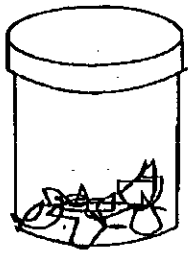
Time 3:15 2/6/95

Homogenization Worksheet

Date: 2/16/95 Subsample

Tank: C103 Core: 63 Segment: 2 Riser: 2 Request for: Kevin Bell

Homogenization Time (Min.): NA

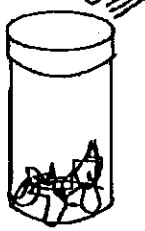


Jar#: 6371 (drainable liquid)
Jar/Vial size: 250 mL
Initial weight: 352.58 g
Final Weight: 337.119 g
Net Weight: 15.47 g (after final subsample taken)
Removed

Do not Record this information in Paradox. Decanted Liquid into Vial # 6498

Start time:
Finish time:

CONE



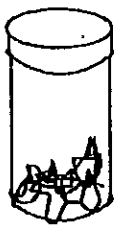
15mL Cone

Transfered Liquid ~ 10mLs

CENTRIFUGE Cone

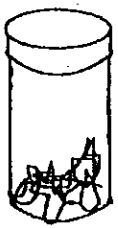
Jar#: NA 6498
Jar/Vial size: 15mL
Initial weight: 6.64 g
Final Weight: 21.75 g
Net Weight: 15.10 g

Start time:
Finish time:



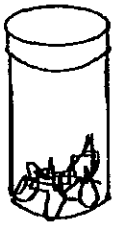
Jar#: 6498
Jar/Vial size: 20mL
Initial weight: 27.10 g
Final Weight: 38.44 g
Net Weight: 11.34 g
LAB (particle size)

Start time:
Finish time:



Jar#:
Jar/Vial size: RKF 2/10/95
Initial weight:
Final Weight:
Net Weight:

Start time:
Finish time:



Jar#:
Jar/Vial size: RKF 2/10/95
Initial weight:
Final Weight:
Net Weight:

Special Instructions: Subsample into centrifuge vial. Centrifuge for 45min - 1 hr then decant liquid into a 20 mL vial. Leave the last 1 or 2 mL in centrifuge vial ~~as~~ DO NOT TRANSFER SOLIDS.

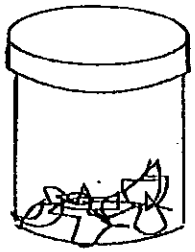
HOT cell temp: 75.1° Humidity: 30%

Subsample Worksheet

Date: 2/7/95

Tank: C-103 Core: 63 Segment: 2 Riser: 2 Requestor: K. Bell

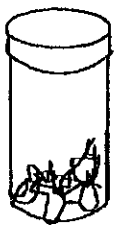
Homogenization Time (Min.): _____



Jar#: 6367 (upper half sludge)
Jar/Vial size: 125 mL
Initial weight: 197.512 g
Final Weight: 193.110 g
Net Weight: 4.402 g (after final subsample taken)

136

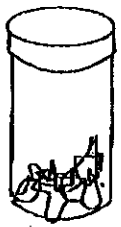
Start time:
Finish time:



Required Tests:
- DSC
- TGA
- TIC
- TOC

collect 1-2 g
Jar#: 6282
Jar/Vial size: 20 mL
Initial weight: 27.303 g
Final Weight: 28.250 g
Net Weight: 0.9470 g

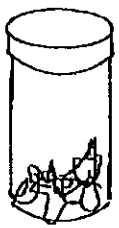
Start time:
Finish time:



Required Tests:
- fusion
- alpha
- ICP

collect 1-2 g
Jar#: 6283
Jar/Vial size: 20 mL
Initial weight: 27.373 g
Final Weight: 28.400 g
Net Weight: 1.027 g

Start time:
Finish time:

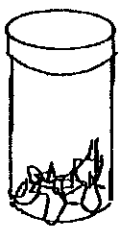


Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

* Special Instructions: Do not exceed 2 g in each vial.

Balance Check 20g = 19.946g 500g = 499.870

WHC-SD-WM-DP-092, REV. 1
03/08/95 08:03 ☎509 372 2929 WESTINGHOUSE ←→ LAB DATA MGMT 001

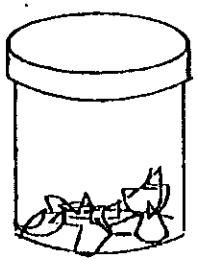
FAX

~~Homogenization~~ Subsample Worksheet

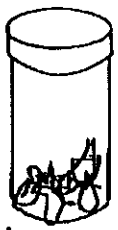
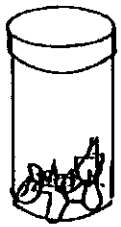
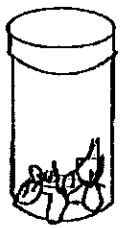
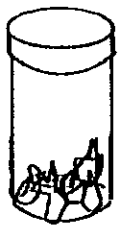
Date: 4/15/95

Tank: C-103 Core: 63 Segment: 2 Riser: 2 Requestor: [illegible]

Homogenization Time (Min.):



Jar#: 6367 (upper half)
Jar/Vial size: 125 mL
Initial weight: 191.875 g
Final Weight: 178.289 g
Net Weight: 13.586 g (after final subsample taken)

Start time: Finish time:	Start time: Finish time:	Start time: Finish time:	Start time: Finish time:
			
Need 1 g	N/A	N/A	N/A
Jar#: 6520	Jar#:	Jar#:	Jar#:
Jar/Vial size: 20 mL	Jar/Vial size: mL	Jar/Vial size: mL	Jar/Vial size: mL
Initial weight: 27.126 g	Initial weight: g	Initial weight: g	Initial weight: g
Final Weight: 27.882 g	Final Weight: g	Final Weight: g	Final Weight: g
Net Weight: .756 g	Net Weight: g	Net Weight: g	Net Weight: g
Sample S95T000164 LAB			

Special Instructions:

137

WHC-SD-WM-DP-099, REV. 1

2

Subsample

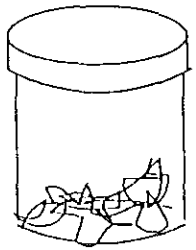
~~Homogenization~~ Worksheet : -1878

Date: ~~10/ 02~~ RK7 2/15/95 / 15 / 95

KEVIN BELL

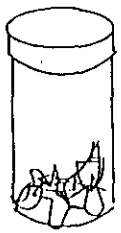
Tank: C-103 Core: 63 Segment: 2 Riser: 2 Requestor: B

Homogenization Time (Min.):_____



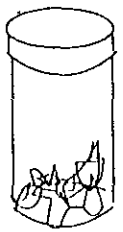
Jar#: 6367 (upper half)
Jar/Vial size: 125 mL
Initial weight: 191.875 g
Final Weight: 178.289 g
Net Weight: 13.586 g (after final subsample taken)

Start time:
Finish time:



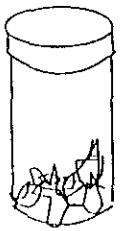
need 10 g
Jar#: 6521
Jar/Vial size: 20 mL
Initial weight: 27.157 g
Final Weight: 37.760 g
Net Weight: 10.603 g
Sample # 595T000166

Start time:
Finish time:



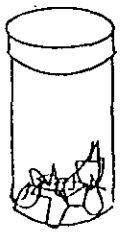
Jar#: RK7 2/15/95
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Jar#: RK7 2/15/95
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Jar#: RK7 2/15/95
Jar/Vial size: ml
Initial weight: g
Final Weight: g
Net Weight: g

Special Instructions: This is material to be shipped to PNL

WHC-SD-WM-DP-099, REV. 1

#1

138

Subsample Worksheet

Date: Apr. 27, 95

Tank: C-103 Core: 63 Segment: 2 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 5

Jar#: 6367 (84)
Jar/Vial size: 125 mL
Initial weight: 135.86 g
Final Weight: 133.12 g
Net Weight: 2.74 g (after final subsample taken)

Start time:
Finish time:

Required Tests: water digest

* need 1 g

Jar#: 6970
Jar/Vial size: 20 mL
Initial weight: 28.22 g
Final Weight: 29.60 g
Net Weight: 1.38 g

Start time:
Finish time:

Required Tests:

N/A
KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

Required Tests:

N/A
KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

Required Tests:

N/A
KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

* Special Instructions: Please do not collect more than 2 g.
NOTE: Resample per K. Bell

WBCSD-WM-DP-099, REV. 1

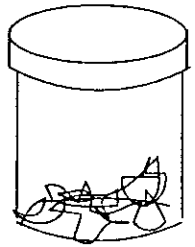
E^L

Homogenization Worksheet

Date: 4/25/95

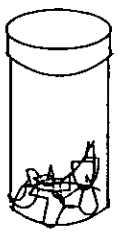
Tank: C103 Core: 63 Segment: 2 Riser: 2

Homogenization Time (Min.): 5



Jar#: 6366
Jar/Vial size: 125ml
Initial weight: 160.08
Final Weight: 140.41
Net Weight: 19.67 (after final subsample taken)

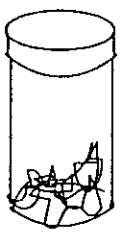
Start time:
Finish time:



LAB ANALYSES

Jar#: 6272
Jar/Vial size: 20mL
Initial weight: 27.65
Final Weight: 33.40
Net Weight: 5.75

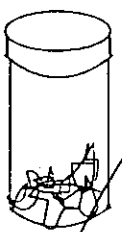
Start time:
Finish time:



ARCHIVE

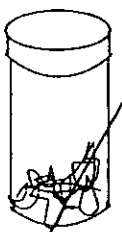
Jar#: 6451
Jar/Vial size: 40mL
Initial weight: 24.93
Final Weight: 33.46
Net Weight: 8.53

Start time:
Finish time:



Jar#: RKT
Jar/Vial size:
Initial weight:
Final Weight:
Net Weight:

Start time:
Finish time:



Jar#: RKT
Jar/Vial size:
Initial weight:
Final Weight:
Net Weight:

140

Special Instructions:

WHC-CD-WM-099, Rev. 1

158 PAR

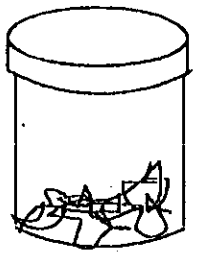
Subsample Worksheet

Date: 2/10/95 ~~2/7/95~~ TKT

Tank: C-103 Core: 63 Segment: 2 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 30 min

This jar is Empty after completing this subsample R.H.



Jar#: 6366 (lower half sludge)
Jar/Vial size: 125 mL
Initial weight: 139.647 g
Final Weight: 132.848 g
Net Weight: [redacted] (after final subsample taken)

141

Start time: Finish time:	Start time: Finish time:	Start time: Finish time:	Start time: Finish time:
Required Tests: DSC, TGA, TIC, TOC	Required Tests: fusion, alpha, ICP	Required Tests:	Required Tests:
Collect 1-2g	collect 1-2g	N/A RB	N/A RB
Jar#: 6286	Jar#: 6500	Jar#:	Jar#:
Jar/Vial size: 20 mL	Jar/Vial size: 20 mL	Jar/Vial size: mL	Jar/Vial size: mL
Initial weight: 27.636 g	Initial weight: 27.471 g	Initial weight: g	Initial weight: g
Final Weight: 29.013 g	Final Weight: 30.174 g	Final Weight: g	Final Weight: g
Net Weight: 1.379 g	Net Weight: 2.705 g	Net Weight: g	Net Weight: g

* Special Instructions: Do not exceed 2g in each vial

WHC-SD-WM-TP-099, Rev. 1

Balance Check = 20g = 20.017 .. 500g = 499.990g.

HOT CELL 11A/B Temp. 78.5°F Humity = 2[illegible]%

Temp. 78.6 F
Humidity - 20%

20.00 - 19.99
500.00 - 499.969

WHC-SD-WM-DP-099, REV. 1

Subsampling Worksheet

Tank C103 Core 63 Segment 3 Riser 2

Date 1/27/95

This worksheet is used to document all information sample transfers while perform bulk density, archive, and subsampling information. Space has also been provided to record homogenization times.

Homogenization Time: start 8:44am – ✓

Labcore number:		Labcore number:	
Jar/vial # :	6139	Vial/cone # :	6277
Jar/vial size :	250	Jar/vial size :	20mL
initial wt. :	396.788	initial wt. :	27.18
final wt. :	339.860	final wt. :	33.437
net weight :	56.92	net weight :	

transfer #1 →

33.43
27.18
6.25

Notes on homogenization, organic volume, bulk density, and/or archiving.

Homogenization Time: _____

Labcore number:		Labcore number:	
Jar/vial # :		Vial/Cone # :	6394
Jar/vial size :		Jar/vial size :	40mL
initial wt. :		initial wt. :	24.952
final wt. :		final wt. :	66.610
net weight :		net weight :	

66.60
24.95
41.65
6.25
47.90

Notes on homogenization, organic volume, bulk density, and/or archiving:

40mL
Transfer #2

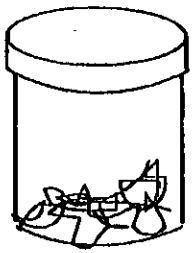
B
FAX

Subsample Worksheet

Date: 2/7/95

Tank: C-103 Core: 63 Segment: 3 Riser: 2 Requestor: K. Bell

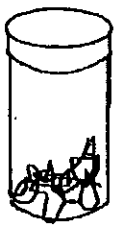
Homogenization Time (Min.):



Jar#: 6139 / upper half sludge
Jar/Vial size: 250 mL
Initial weight: 340.447 g
Final Weight: 333.388 g
Net Weight: [redacted] g (after final subsample taken)

143

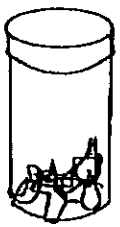
Start time:
Finish time:



Required Tests:
DSC
TGA
TIC
TOC

collect 1-2 g
Jar#: 6503
Jar/Vial size: 20 mL
Initial weight: 27.150 g
Final Weight: 28.654 g
Net Weight: 1.504 g

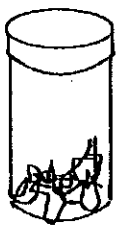
Start time:
Finish time:



Required Tests:
fusion
alpha
ICP

collect 1-2 g
Jar#: 6504
Jar/Vial size: 20 mL
Initial weight: 27.018 g
Final Weight: 29.314 g
Net Weight: [redacted] g

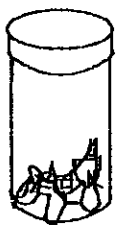
Start time:
Finish time:



Required Tests:

N/A KB
Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

N/A KB
Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

WHC-CD-WM-DP-099, REV. 1

* Special Instructions: Do not exceed 2g in each vial.

Balance Check: 20g. = 19.995 g 500g. = 499.973

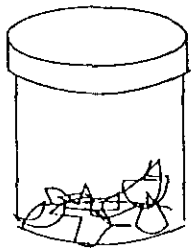
03/08/95 08:01 ☎509 372 2929 WESTINGHOUSE →→→ LAB DATA MGMT 006

Subsample Worksheet

Date: Apr. 27, 95

Tank: C-103 Core: 63 Segment: 3 Riser: 2 Requestor: K. Bell

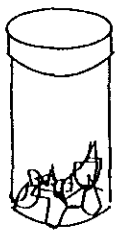
Homogenization Time (Min.): 5



Jar#: 6139 (84)
Jar/Vial size: 250 mL
Initial weight: 256.79 g
Final Weight: 253.58 g
Net Weight: 3.21 g (after final subsample taken)

144

Start time:
Finish time:

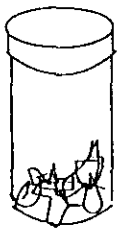


Required Tests: water digest

* need 1 g

Jar#: 6971
Jar/Vial size: 20 mL
Initial weight: 27.32 g
Final Weight: 28.91 g
Net Weight: 1.59 g

Start time:
Finish time:

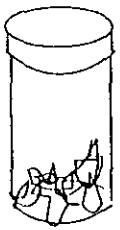


Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

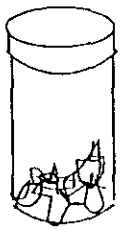


Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

* Special Instructions: Please do not collect more than 2 g.
Note: Resample Per K. Bell

WHOI-DSMLP 092, REV. 1

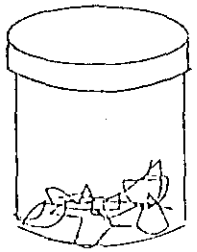
Subsample Worksheet

20- 19.997
560- 449.874

Date: May 4, 95

Tank: C-103 Core: 63 Segment: 3 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 5 min.



Jar#: 6139 (Box 84)
Jar/Vial size: 250 mL
Initial weight: 253.09 g
Final Weight: 246.87 g
Net Weight: 6.22 g (after final subsample taken)

Start time:
Finish time:

Required Tests:
% H_2O (re-test)

Collect 4-5 g
Jar#: 6973
Jar/Vial size: 20 mL
Initial weight: 27.13 g
Final Weight: 31.13 g
Net Weight: 4.00 g

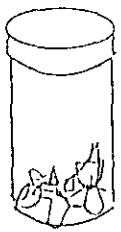
Start time:
Finish time:

Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

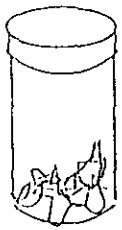


Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

WRC-SD-WM-099, REV. 1

Special Instructions: Note Vial # 6973 was loaded back into Hot Cell and destroyed.

Subsampling Worksheet WHC-SD-WM-DP-099, REV 1

Tank C103 Core 63 Segment 3 Riser 2

Date 1/26/95

This worksheet is used to document all information sample transfers while perform bulk density, archive, and subsampling information. Space has also been provided to record homogenization times.

Homogenization Time: 5:00 min.

		# Transfer →		
Labcore number:			Labcore number:	
Jar/vial # :	6138		Vial/cone # :	6276
Jar/vial size :	250mL		Jar/vial size :	~~6276~~ 20mL
initial wt. :	452.33		initial wt. :	37.06
final wt. :	388.37		final wt. :	27.32
net weight :	63.96		net weight :	

37.06
27.32
6.74
46.00
52.74

Notes on homogenization, organic volume, bulk density, and/or archiving.

63.96g
52.74
11.22

Homogenization Time: _____

Labcore number:	~~6456~~	Labcore number:	
Jar/vial # :	~~40mL~~ 6454	Vial/Cone # :	
Jar/vial size :	40mL	Jar/vial size :	
initial wt. :	70.98	initial wt. :	
final wt. :	24.98	final wt. :	
net weight :	46.00	net weight :	

Notes on homogenization, organic volume, bulk density, and/or archiving:

#2.

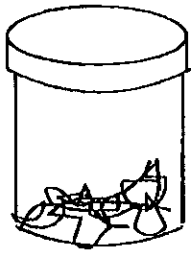
ICB
FAX

Subsample Worksheet

Date: 2/10/95 RKT
2/7/95

Tank: C-103 Core: 63 Segment: 3 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 30min



Jar#: 6138 (lower half sludge)
Jar/Vial size: 250 mL
Initial weight: 387.597 g
Final Weight: 382.535 g
Net Weight: [redacted] g (after final subsample taken)

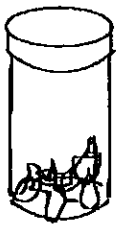
147

Start time:
Finish time:

Required Tests:
DSC
TGA
TIC
TOC

28R collect 1-2 g
Jar#: 6501
Jar/Vial size: 20 mL
Initial weight: 27.415 g
Final Weight: 28.930 g
Net Weight: 1.515 g

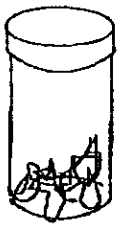
Start time:
Finish time:



Required Tests:
fusion
alpha
ICP

collect 1-2 g
Jar#: 6502
Jar/Vial size: 20 mL
Initial weight: 27.827 g
Final Weight: 29.120 g
Net Weight: 1.293 g

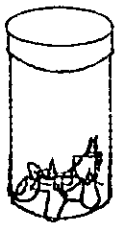
Start time:
Finish time:



Required Tests:

N/A RB
Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

N/A RB
Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

* Special Instructions: Do not exceed 2 g in each vial.

WHC-CD-VM-DF-099, REV. 1

Balance Check 20g = 19.998g. 500g = 499.971

11AM Temp. 78.5°F Humidity = 20%

03/08/95 09:01 ☎509 372 2929 WESTINGHOUSE S... ... AS DATA XXX

Temp - 78.3

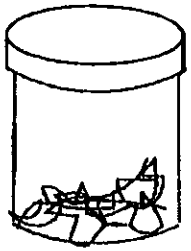
Subsample Worksheet

Humidity 20%

Date: 2/15/95

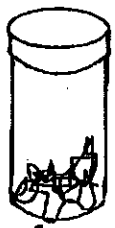
Tank: C-103 Core: 63 Segment: 3 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 10:40



Jar#: X6138 (lower half sludge) *
Jar/Vial size: 250 mL
Initial weight: 379.634 g
Final Weight: 376.998 g
Net Weight: 2.636 g (after final subsample taken)

Start time:
Finish time:



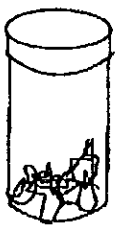
* Collect between 0.5 and 1.0 g

Jar#: 6509
Jar/Vial size: 20 mL
✓ Initial weight: 26.954 g
Final Weight: 27.71 g
Net Weight: 0.756 g

Start time:
Finish time:

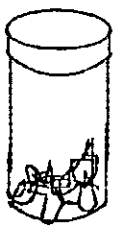
Jar#: N/A KB 2/14/95
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Jar#: N/A KB 2/14/95
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Jar#: N/A KB 2/14/95
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Special Instructions:

099, REV. 1

148

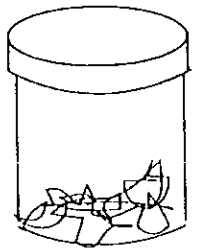
03/08/95 09:00 2506 272 2828 WESTINGHOUSE LAB DATA MGMT 2005

Subsample Worksheet

Date: April 1995

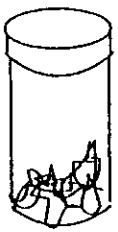
Tank: C-103 Core: 63 Segment: 3 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 5 min



Jar#: 6138 (lower half) (84 Box)
Jar/Vial size: 250 mL
Initial weight: 256.72 g
Final Weight: 252.48 g
Net Weight: 4.24 g (after final subsample taken)

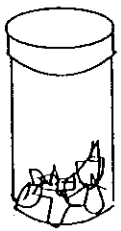
Start time:
Finish time:



Required Tests: CN

* Collect 1-2 g
Jar#: 6953
Jar/Vial size: 20 mL
Initial weight: 27.17 g
Final Weight: 28.64 g
Net Weight: 1.47 g

Start time:
Finish time:

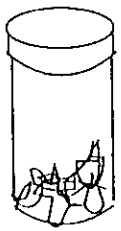


Required Tests:

n/a JCB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

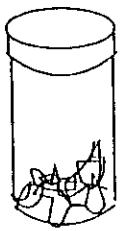


Required Tests:

n/a JCB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

n/a JCB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

WRCS-SD-WM-TP-099, REV. 1

* Special Instructions: Sample very radioactive. Do not exceed 2 g.

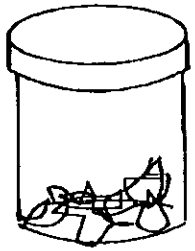
BEST AVAILABLE COPY

Subsample Worksheet

Date: 2/7/95

Tank: C-103 Core: 63 Segment: 4 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.):



Jar#: 6370
Jar/Vial size: [redacted] mL
Initial weight: [redacted] g
Final Weight: [redacted] g
Net Weight: [redacted] g (after final subsample taken)

150

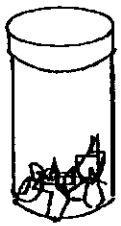
Start time:
Finish time:

Required Tests:
~~FE~~ XB 3/13/95
ICP XB 3/13-95
@ TTCTOC1
DIC-01, DIC-02
TC-M-01

collect 3-4g

Jar#: 6505
Jar/Vial size: 20 mL
Initial weight: 26.664 g
Final Weight: 31.147 g
Net Weight: 4.483 g

Start time:
Finish time:

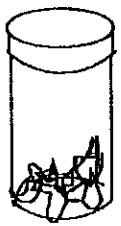


Required Tests:

N/A XB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

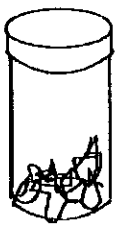


Required Tests:

N/A XB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

N/A XB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

PROCED-WM-TP-099, REV. 1

* Special Instructions: Do not exceed 4 g.

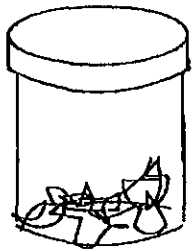
Balance Check 20g = 19.998g 500g = 499.973g.

Subsample Worksheet

Date: 2/3/95

Tank: C-103 Core: 63 Segment: 4 Riser: 2 Requester: K. Bell

Homogenization Time (Min.): N/A



Jar#: 6370 (drainable liquid)
Jar/Vial size: 250 mL
Initial weight: 295.748 g
Final Weight: 261.604 g
Net Weight: RH ~~26~~ 34.144 g (after final subsample taken)

151

Start time:	Start time:	Start time:	Start time:
Finish time:	Finish time:	Finish time:	Finish time:
for analysis	for archive		
~~about least~~ 3mL KB 2/6/95	about 20mL		
Jar#: ~~6284~~ RH 6281	Jar#: 6296	Jar#: N/A KB	Jar#: N/A KB
Jar/Vial size: 20 mL	Jar/Vial size: 40 mL	Jar/Vial size: mL	Jar/Vial size: mL
Initial weight: 27.135 g	Initial weight: 25.16 g	Initial weight: g	Initial weight: g
Final Weight: ~~33.342~~ g RH	Final Weight: 52.78 g	Final Weight: g	Final Weight: g
Net Weight: ~~6.207~~ g RH 4.502	Net Weight: 27.61 g	Net Weight: g	Net Weight: g

Special Instructions: 1) Remove about 10 mL for analysis
2) Remove at least 20mL for archive sample. (Fill g vial ½ way.)

099, REV. 1

Subsampling Worksheet

Tank C103 Core 63 Segment 4 Riser 2

Date 1/27/95

Balance Check: 20 grams = 19.997
500 grams = 499.964

Hot Cell Temp : 78. F
Hot Cell Humidity : 20%

This worksheet is used to document all information sample transfers while perform bulk density, archive, and subsampling information. Space has also been provided to record homogenization times.

Start : 1:00 pm Finish _____

Homogenization Time: _____

Time _____

Labcore number: _____
Jar/vial # : 6140
Jar/vial size : 250mL
initial wt. : 459.234
final wt. : 374.965
net weight : _____

Time 1:00

#1
20mL
5-10g

Labcore number: _____
Vial/cone # : 6278
Jar/vial size : 20
initial wt. : 26.921
final wt. : 30.41
net weight : _____

Notes on homogenization, organic volume, bulk density, and/or archiving.

20mL #3 5-10g

#2 20mL 5-10g

Homogenization Time: _____

Time 1020

Labcore number: _____
Jar/vial # : 6279
Jar/vial size : 20
initial wt. : 27.376
final wt. : 34.277
net weight : _____

Time 1:35

Labcore number: _____
Vial/Cone # : 6280
Jar/vial size : 20mL
initial wt. : 27.137
final wt. : 32.890
net weight : _____

Notes on homogenization, organic volume, bulk density, and/or archiving:

Homogenization Time: _____

Time 1:45

Labcore number: _____
Jar/vial # : 6395
Jar/vial size : 40mL
initial wt. : 24.996
final wt. : 82.029
net weight : _____

Labcore number: _____
Vial/Cone # : _____
Jar/vial size : _____
initial wt. : _____
final wt. : _____
net weight : _____

40 grams

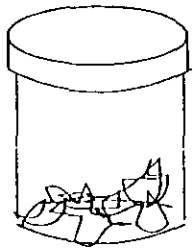
#4 40mL

Subsample Worksheet

Date: 5/5/95

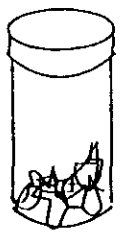
Tank: C-103 Core: 63 Segment: 4 Riser: 2 Requestor: K. Bell

Homogenization Time (Min.):_____



Jar#: 6140 (upper half sludge)
Jar/Vial size: 250 mL
Initial weight: 267.93 g
Final Weight: 263.37 g
Net Weight: 4.56 g (after final subsample taken)

Start time:
Finish time:

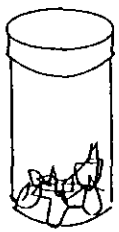


Required Tests:
% H_2O (re-take)

collect 4-5 g

Jar#: 6976
Jar/Vial size: 20 mL
Initial weight: 27.59 g
Final Weight: 31.88 g
Net Weight: 4.29 g

Start time:
Finish time:

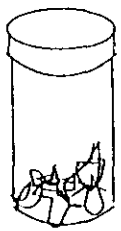


Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

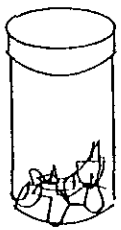


Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

153

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Special Instructions: _____

Subsample Worksheet

Date: 5/1/95

Tank: C-103 Core: 63 Segment: 4 Riser: _____ Requestor: K. Bell

Homogenization Time (Min.): 5

Jar#: 6140 (solids) (Box 84)
Jar/Vial size: 125 mL
Initial weight: 274.17 g
Final Weight: 268.24 g
Net Weight: 5.93 g (after final subsample taken)

Start time:
Finish time:

595T000873

Required Tests: % H2O

* collect 2-3 g
Jar#: 6972
Jar/Vial size: 20 mL
Initial weight: 26.97 g
Final Weight: 31.65 g
Net Weight: 4.68 g

Start time:
Finish time:

Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

Required Tests:

n/a KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

WHC-SD-WM-TP-099, Rev. 1

* Special Instructions: Need at least 2g for analysis

154

500g - 499.89
78.7°
28% Humid

Composite Worksheet

Date: 2/13/95

Tank: C-103

Requestor: K. Bell

Core: 63 (C-103)	Core: 63 (C-103)	Core: 63 (C-103)	Core: 63 (C-103)
Segment: 2	Segment: 3	Segment: 3	Segment: 4
need 39g	need 96g	need 67g	need 90g
Jar#: 6367 (upper half) *	Jar#: 6138 (lower half) *	Jar#: 6139 (upper half) *	Jar#: 6140 (upper half) *
Jar/Vial size: 125 mL	Jar/Vial size: 250 mL	Jar/Vial size: 250 mL	Jar/Vial size: 250 mL
Initial weight: 178.13 g	Initial weight: 371.53 g	Initial weight: 331.19 g	Initial weight: 323.23 g
Final Weight: 140.49 g	Final Weight: 267.30 g	Final Weight: 260.65 g	Final Weight: 276.81 g
Net Weight: 37.64 g	Net Weight: 104.23 g	Net Weight: 70.54 g	Net Weight: 96.42 g
35.39 g	102.00 g	69.07 g	95.30 g

WHC-SD-WM-DP-099, REV. 1

Required Tests:
✓ Ship to PNL

Jar#: 6539
Jar/Vial size: 250 mL
Initial weight: 227.73 g
Final Weight: 529.42 g
Net Weight: 301.690 g (after final subsample added)

Homogenization Time (Min.): _____

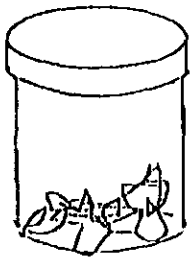
* Special Instructions: Please try to get as close as you can to the weights given above; 39g from 6367, 96g from 6138, 67g from 6139, 90g from 6140.

Subsample Worksheet

Date: March 23, 95

Tank: C-103 Core: 63 Segment: Core Comp. Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 5 min.



Jar#: ~~6539~~ ~~6572~~ XB 6539 2/23/95
Jar/Vial size: ~~125~~ ~~250~~ 250 mL
Initial weight: 383.76 g
Final Weight: 314.50 g
Net Weight: 69.26 g (after final subsample taken)

156

Start time:
Finish time:

Required Tests: Ship PNL

need 30-35 g

Jar#: 6770
Jar/Vial size: 70 ~~40~~ mL XB
Initial weight: 125.96 g
Final Weight: 160.48 g
Net Weight: 34.52 g

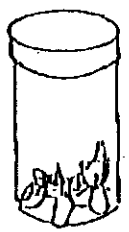
Start time:
Finish time:

Required Tests: Ship PNL

* need 30-35 g

Jar#: 6771
Jar/Vial size: 70 ~~40~~ mL XB
Initial weight: 124.65 g
Final Weight: 155.09 g
Net Weight: 30.44 g

Start time:
Finish time:

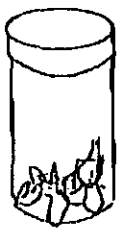


Required Tests: Archive

XB ~~need 50-60 g~~ Archive remainder in 6572

Jar#: 6572
Jar/Vial size: 125 mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

N/A XB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

* Special Instructions: Get as close to 35 g as you can without going over. The vials cannot be shipped if weight is over 35 g.

WHC-SD-WM-LP-099, REV. 1

Subsample Worksheet

Date: _____

Tank: C-103 Core: 63 Segment: core comp. Riser: 2 Requestor: K. Bell

Homogenization Time (Min.): 6 min

Jar#: 6539
Jar/Vial size: 250 mL
Initial weight: 598.93 g
Final Weight: 385.24 g
Net Weight: 213.69 g (after final subsample taken)

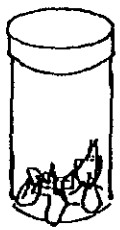
151

Start time:
Finish time:

Required Tests: ship PNL

* Jar#: 6539
Jar/Vial size: 250 mL
✓ Initial weight: 598.93 g
Final Weight: 385.24 g
Net Weight: 213.69 g

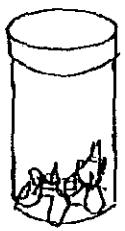
Start time:
Finish time:



Required Tests: Archive

Jar#: 6572
Jar/Vial size: 125 mL
✓ Initial weight: 129.303 g
Final Weight: 267.52 g
Net Weight: 138.22 g

Start time:
Finish time:



Required Tests:

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

Required Tests:

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

* Special Instructions: Remove about 150g from jar 6539 and place in a 125 ml jar for the pretreatment development archive sample. The material remaining in 6539 will be shipped to PNL.

WHC-SD-WM-DP-099 REV. 1

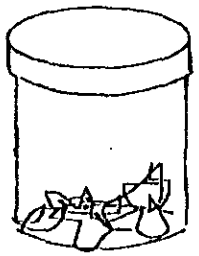
FAX

Subsample Worksheet

Date: 3/3/95

Tank: C-103 Core: 66 Segment: 1 Riser: 7 Requestor: K. Bell

Homogenization Time (Min.): N/A

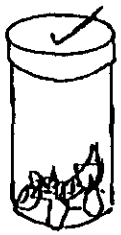


Jar#: 6373 (liquid)
Jar/Vial size: 250 mL
Initial weight: 416.52 g
Final Weight: n/a g *
Net Weight: Jar destroyed g (after final subsample taken)

* Jar was turned over. All sample was spilled except for about 10 mL, which was placed in vial 6497.

158

Start time:
Finish time:

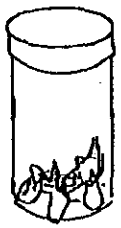


Required Tests: HOLDPC

collect organic (top) layer

* Jar#: 6525 KB 3/3/95
Jar/Vial size: 20 ~~40~~ mL
Initial weight: 27.403 g
Final Weight: 28.822 g
Net Weight: 1.419 g

Start time:
Finish time:

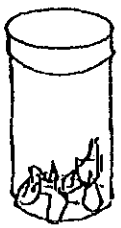


Required Tests: DSC/TGA, TOC, ICP

collect 3-4 mL of aqueous

Jar#: 6497
Jar/Vial size: 20 mL
Initial weight: 27.476 g
Final Weight: 33.960 g
Net Weight: 6.484 g

Start time:
Finish time:

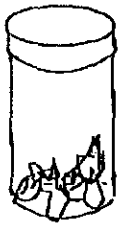


Required Tests: ICP, n/a

collect 3-4 mL of aqueous

Jar#:
Jar/Vial size: 20 mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests: Archive, n/a

collect 30 mL of aqueous

Jar#:
Jar/Vial size: ~~40~~ mL
Initial weight: g
Final Weight: g
Net Weight: g

699, REV. 1

* Special Instructions: Remove the top liquid layer in jar 6373 before taking the other subsamples. Collect as much of the top layer as possible.

* After collecting the organic layer in vial 6409, it was broken. All sample was lost except a few mL poured into vial 6525

FAX

Subsample Worksheet

Date: 3-3-95

Tank: C-103 Core: 66 Segment: 2 Riser: 7 Requestor: K. Bell

Homogenization Time (Min.): N/A

Jar#: 6541 (liquid)
Jar/Vial size: 250 mL
Initial weight: 458.44 g
Final Weight: 416.75 g
Net Weight: 41.690 g (after final subsample taken)

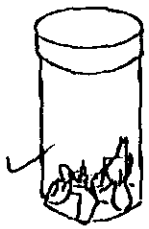
159

Start time:
Finish time:

Required Tests:
DSC/TGA
TOC

collect 3-4 ml (5 g)
Jar#: 6527
Jar/Vial size: 20 mL
Initial weight: 27.063 g
Final Weight: 31.311 g
Net Weight: 4.248 g

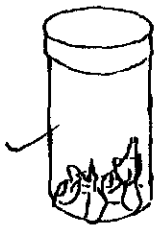
Start time:
Finish time:



Required Tests:
ICP

collect 3-4 ml (5 g)
Jar#: 6528
Jar/Vial size: 20 mL
Initial weight: 27.274 g
Final Weight: 31.607 g
Net Weight: 4.333 g

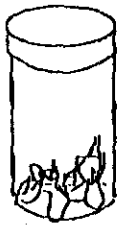
Start time:
Finish time:



Required Tests:
Archive

Collect 30 mL
Jar#: 6414
Jar/Vial size: 40 mL
Initial weight: 25.141 g
Final Weight: 57.851 g
Net Weight: 32.710 g

Start time:
Finish time:



Required Tests:

N/A

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Special Instructions:

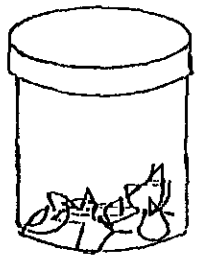
099, Rev. 1

Subsample Worksheet

Date: 3/3/95

Tank: C-103 Core: 66 Segment: 3 Riser: 7 Requestor: K. Bell

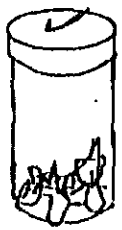
Homogenization Time (Min.): N/A



Jar#: 6543 (liquid)
Jar/Vial size: 250 mL
Initial weight: 456.92 g
Final Weight: 415.19 g
Net Weight: 41.730 g (after final subsample taken)

160

Start time:
Finish time:



Required Tests: DSC/TGA, TOC

collect 3-4ml (5g)
Jar#: 6523
Jar/Vial size: 20 mL
Initial weight: 27.11 g
Final Weight: 31.37 g
Net Weight: 4.260 g

Start time:
Finish time:

Required Tests: ICP

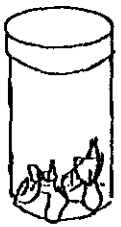
Collect ~~3-4g (5ml)~~ 3-4ml (5g) KB 3-1-95
Jar#: 6524
Jar/Vial size: 20 mL
Initial weight: 27.287 g
Final Weight: 31.632 g
Net Weight: 4.345 g

Start time:
Finish time:

Required Tests: Archive

collect 30 mL
Jar#: 6408
Jar/Vial size: 40 mL
Initial weight: 25.122 g
Final Weight: 57.766 g
Net Weight: 32.644 g

Start time:
Finish time:



Required Tests:

N/A

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Special Instructions:

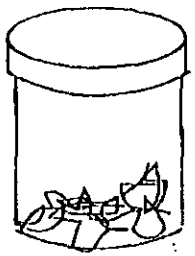
FAX

Subsample Worksheet

Date: 3-6-95

Tank: C-103 Core: 66 Segment: ~~4~~ 3 NB 6/6/95 Riser: 7 Requestor: K. Bell

Homogenization Time (Min.): 8:AM



Jar#: 6564 (solids)
Jar/Vial size: 125 mL
Initial weight: 171.121 g
Final Weight: 163.849 g
Net Weight: 7.272 g (after final subsample taken)

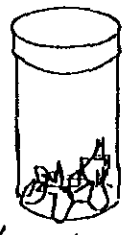
161

Start time:
Finish time:

Required Tests:
DSC/TGA
TIC/TOC

* collect 2-3g
Jar#: 6529
Jar/Vial size: 20 mL
Initial weight: 26.902 g
Final Weight: 29.523 g
Net Weight: 2.621 g

Start time:
Finish time:



Required Tests:
Fusion

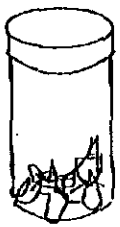
* collect 2-3g
Jar#: 6530
Jar/Vial size: 20 mL
Initial weight: 27.310 g
Final Weight: 29.651 g
Net Weight: 2.341 g

Start time:
Finish time:

Required Tests: Acetate NB 6/27/95
N/A NB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:
N/A NB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

SUBSAMPLE 099, REV. 1

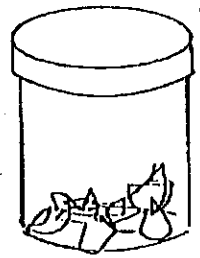
* Special Instructions: Please do not collect more than 3g in either vial.

Subsample Worksheet

Date: March 28, 95

Tank: C-103 Core: 66 Segment: 3 Riser: 7 Requestor: K. Bell

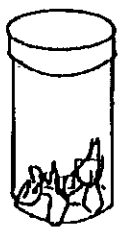
Homogenization Time (Min.): 5



* Jar#: 6564 (solids)
Jar/Vial size: 125 mL
Initial weight: 161.85 g
Final Weight: 135.95 g
Net Weight: 25.90 g (after final subsample taken)

162

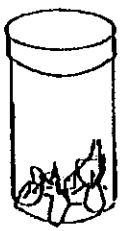
Start time:
Finish time:



Required Tests: Archive

* Jar#: 6746
Jar/Vial size: 40 mL
Initial weight: 25.42 g
Final Weight: 46.04 g
Net Weight: 20.62 g

Start time:
Finish time:

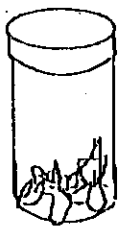


Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

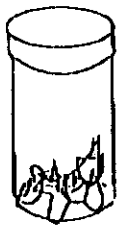


Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

WHC-SD-WM-TP-099, REV. 1

Special Instructions: Transfer remaining solids in jar 6564 into 40mL vial. Note* JAR #6564 has been Destroyed.

Subsample Worksheet

Date: 3-3-95

Bank: C-103 Core: 66 Segment: 4 Riser: 7 Requestor: K. Bell

Homogenization Time (Min.): N/A

Jar#: 6546 (liquid)
Jar/Vial size: 250 mL
Initial weight: 311.61 g
Final Weight: 270.00 g
Net Weight: 41.610 g (after final subsample taken)

163

Start time:
Finish time:

Required Tests: DSC/TGA, TOC

collect 3-4 ml (5g)
Jar#: 6526
Jar/Vial size: 20 mL
Initial weight: 27.673 g
Final Weight: 31.890 g
Net Weight: 4.217 g

Start time:
Finish time:

Required Tests: ICP

collect 3-4 ml (5g)
Jar#: 6534
Jar/Vial size: 20 mL
Initial weight: 26.707 g
Final Weight: 31.037 g
Net Weight: 4.330 g

Start time:
Finish time:

Required Tests: Archive

collect 30 ml
Jar#: 6412
Jar/Vial size: 40 mL
Initial weight: 24.971 g
Final Weight: 57.644 g
Net Weight: 32.673 g

Start time:
Finish time:

Required Tests:

N/A

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Special Instructions:

099, REV 1

AX

Subsample Worksheet

Date: 3/6/95

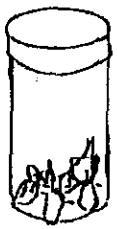
Tank: C-103 Core: 66 Segment: 4 Riser: 7 Requestor: K. Bell

Homogenization Time (Min.): _____

Jar#: 6558 (Solids)
Jar/Vial size: 125 mL
Initial weight: 185.305 g
Final Weight: 136.257 g
Net Weight: 49.048 g (after final subsample taken)

164

Start time:
Finish time:



Required Tests:
DSC/TGA
TOC

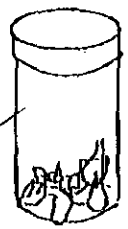
✓ Collect 1-2 g
Jar#: 6532
Jar/Vial size: 20 mL
Initial weight: 27.308 g
Final Weight: 29.878 g
Net Weight: 2.570 g

Start time:
Finish time:

Required Tests:
~~Fusion~~ Fusion
ICP
AT

✓ Collect 1-2 g
Jar#: 6533
Jar/Vial size: 20 mL
Initial weight: 26.919 g
Final Weight: 28.284 g
Net Weight: 1.365 g

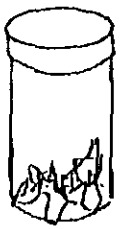
Start time:
Finish time:



Required Tests:
Archive

✓ *
Archive remainder
Jar#: 6440
Jar/Vial size: 40 mL
Initial weight: 25.035 g
Final Weight: 64.963 g
Net Weight: 39.928 g

Start time:
Finish time:



Required Tests:

N/A
KB
Jar#: _____
Jar/Vial size: _____ mL
Initial weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Special Instructions: Perform archiving last.

099 REV. 1

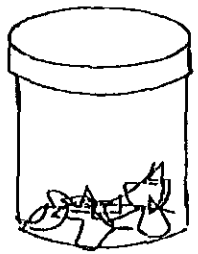
03/14/95 14:25 ☎509 372 2929 WESTINGHOUSE +++ LAB DATA MGMT 007

Subsample Worksheet

Date: _____

Tank: C-103 Core: 66 Segment: field blank Riser: N/A Requestor: K. Bell

Homogenization Time (Min.): _____



Jar#: 6540 (liquid)
Jar/Vial size: 250 mL
Initial weight: 340.12 g
Final Weight: 354.03 g
Net Weight: 36.090 g (after final subsample taken)

165

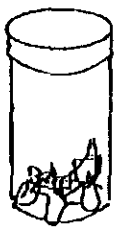
Start time:
Finish time:

Required Tests:
- IC
- ICP
- GEA
- TIC/TOC

collect 30-40 mL

Jar#: 6415
Jar/Vial size: 40 mL
Initial weight: 25.165 g
Final Weight: 61.128 g
Net Weight: 35.963 g

Start time:
Finish time:

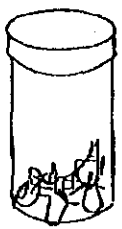


Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:



Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Start time:
Finish time:

Required Tests:

N/A KB

Jar#:
Jar/Vial size: mL
Initial weight: g
Final Weight: g
Net Weight: g

Special Instructions: _____

Form 099, REV. 1

03/14/95 14:25 509 372 2929 WESTINGHOUSE → LAB DATA MGMT 000

Composite Worksheet

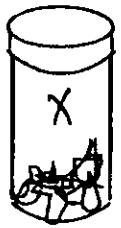
Date: 6/25/95

Tank: C-103

Requestor: Mark Beck and Kevin Bell

Core: 63 #71

Segment: 1

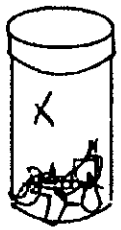


Core: 63 #81

Segment: 2

Core: 63 #81

Segment: 4



Core: 66

Segment: 1

Jar#: 6236	Jar#: 6371	Jar#: 6370	Jar#: 6373
Jar/Vial size: 250 mL	Jar/Vial size: 250 mL	Jar/Vial size: 250 mL	Jar/Vial size: 250 mL
Initial weight: 380.1 g	Initial weight: 333.0 g	Initial weight: ~~349.65~~ 346.70 g	Initial weight: g
Final Weight: 358.3 g	Final Weight: 310.9 g	Final Weight: 334.1 g	Final Weight: g
Net Weight: 21.8 g	Net Weight: 22.1 g	Net Weight: 12.6 g	Net Weight: g

PARENT COMP | Labcore # S95T001179

Jar#: 7351

Jar/Vial size: 250 mL

Initial weight: 221.4 g

Final Weight: ~~349.5~~ 370.0 g

Net Weight: 149.6 g (after final subsample added)

Homogenization Time (Min.): NA

PROCEDURE: 099, REV. 1

Special Instructions: Take 20 mls from each jar. Take only the ~~aqueous~~ RAZELL aqueous phase - NO SOLIDS. DO NOT SHAKE JARS before taking sample. The goal is to obtain ~200 mls of clear aqueous supernate.

Ron Hale / Ruthlean Hunter - The parent comp jar will be used for boildown test.

Page 1 of 3

015 509 373 1432 13:45 07/06/95 166

Composite Worksheet

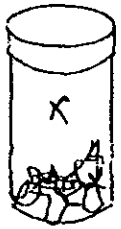
Date: 6/26/95

Tank: C-103

Requestor: Mark Beck and Kevin Bell

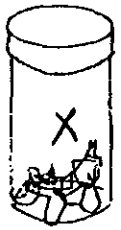
Core: 66
Segment: 2

Jar#: 6541 #87
Jar/Vial size: 250 mL
Initial weight: 415.2 g
Final Weight: 393.1 g
Net Weight: 21.8 g



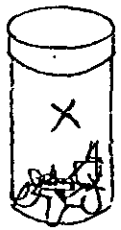
Core: 66
Segment: 2

Jar#: 6557 #87
Jar/Vial size: 125 mL
Initial weight: 220.2 g
Final Weight: 198.2 g
Net Weight: 22.0 g



Core: 66
Segment: 3

Jar#: 6543 #86
Jar/Vial size: 250 mL
Initial weight: 413.9 g
Final Weight: 391.8 g
Net Weight: 22.1 g



Core: 66
Segment: 3

Jar#: 6563 #8[illegible]
Jar/Vial size: 125 mL
Initial weight: 170.0 g
Final Weight: 148.2 g
Net Weight: 21.8 g

See Parent
Jar# _____
on Page #1.

WHC-SD-WM-DP-099, REV. 1

Special Instructions: See page #1

07/06/95 13:46 509 373 1432 016

Composit_ Worksheet

Date: _____ Tank: C-103

Requestor: Mark Beck and Kevin Bell

Core: 66	Core:	Core:	Core:
Segment: 4	Segment:	Segment:	Segment:
Jar#: ~~6546~~ 6412 # RKTuller 6/22/95	Jar#: RKTuller 6/22/95	Jar#: 6/22/95	Jar#: RKTuller 6/22/95
Jar/Vial size: 40 mL	Jar/Vial size: mL	Jar/Vial size: mL	Jar/Vial size: mL
Initial weight: 57.4 g	Initial weight: g	Initial weight: g	Initial weight: g
Final Weight: 35.9 g	Final Weight: g	Final Weight: g	Final Weight: g
Net Weight: 21.5 g	Net Weight: g	Net Weight: g	Net Weight: g

See Parent
Jar# _____
on Page #1.

Special Instructions: See page #1

Page 3 of 3

017 509 373 1432 13:46 07/06/95

168

Group#94000012

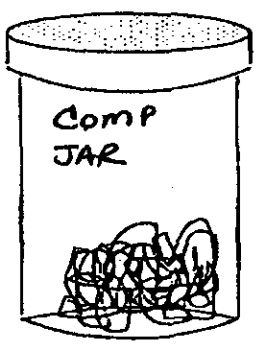
Subsample Worksheet

Date: 7-20-95

Tank: C103 Core: Comp Segment: NA Auger: NA P.C. Kevin Bell / Mark Beck

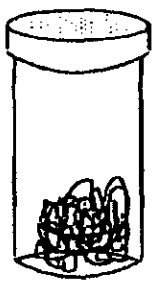
Will be used for Boil down study for Mark Beck.

RKFulk 6/26/95



LABCORE # 595T001179
Jar#: 7351 ← See Composite worksheet.
Jar/Vial Size: 250 mL
Initial Weight: ~~381.6~~ g 381.7
Final Weight: ~~371.8~~ R.H. 7/20/95 371.8 ← (371.8)
Net Weight: ~~5.5~~ RH g 9.9 (after final subsample taken)

5mls 5mls



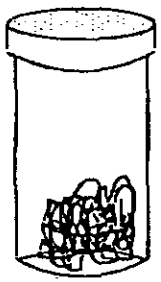
Start Time: ____
End Time: ____

Tests:
TOC
DSC

5mls for lab analyses
No LABcore tests for Subsample

LABCORE # 595T001177
Jar#: 7275
Jar/Vial Size: 20 mL
Initial Weight: 27.6 g
Final Weight: 33.0 g
Net Weight: 5.4 g

For Loadout to LAB



Start Time: ____
End Time: ____

Tests:
TOC
DSC

5mls for lab analyses
No Lab core tests for subsample

LABCORE # 595T001178
Jar#: 7276
Jar/Vial Size: 20 mL
Initial Weight: 27.0 g
Final Weight: 31.2 g
Net Weight: 4.2 g

For LOADOUT to LAB.

099

Special Instructions: Prepare 2 subsamples from the C-103 parent composite jar for load out to laboratory. Have Ernie print labels for each labcore number listed above.

169

002 509 373 1432 12:41 07/21/95

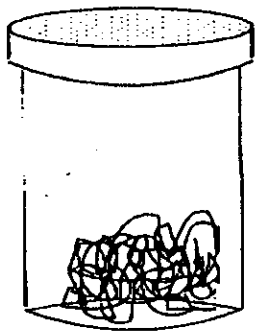
Subsample Worksheet

Date: 8-3-95

Tank: C-103 Core: 63/66 Comp Auger/ Segment: 1-4

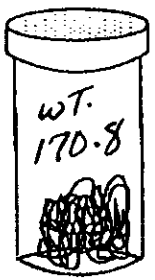
P.C. Mark Beck / Keith Fuller

Phone# 373-2182



LABCORE # S95T001179
Jar#: 7351
Jar/Vial Size: 250 mL
Initial Weight: 371.3 g
Final Weight: 223.5 g
Net Weight: 147.8 g (after final subsample taken)

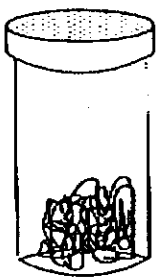
170



Start Time: 8:55
End Time: _____

Tests:
NONE
Filter sample

LABCORE # S95T001179
Jar#: 7351 ← Use same jar#.
~~Jar/Vial Size: 125 mL bottle~~
Final Weight: 356.1 g
Initial Weight: 218.6 g
Net Weight: 137.5 g



Start Time: _____
End Time: _____

Tests:

LABCORE # _____
Jar#: _____
Jar/Vial Size: _____ mL
Final Weight: _____ g
Initial Weight: _____ g
Net Weight: _____ g

PROCEDURE DOC 099, REV. 1

Special Instructions: Filter liquid in JAR 7351 thru filter paper specified by Chemist. Filter liquid into 125 mL bottle. Sample will be transferred to Mark Beck after filter. No Lab core associated with this project.

RKZeck 8/1/95

08/07/95 12:50 509 373 1432 002

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ATTACHMENT 6

LABCORE SAMPLE NUMBERS

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222-S Analytical Laboratory
P.O. BOX 1970 T6-06, Richland, WA 99352
PHONE: (509) 373-4225/FAX: (509) 373-0545

ACKNOWLEDGMENT OF SAMPLES RECEIVED

WHC-CD-WM-DP-099, REV 1

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
PO#: MDR21
Group#: 94000012
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

The following samples were received from you on 10/31/94. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S Analytical Laboratory.

Sample#	Sample Id	Matrix	Tests Scheduled	Sample Date
S94T000200	C103 SEG1 AQLIQ DIR V6193	Liquid, or handle as liquid	@IC-01 @ICP-D03 @TICTOC1 DSC-01 OH-01 ORGVOL01 TGA-01 TOC-01	10/28/94
S94T000201	C103 C63 CORE COMPOSITE V6770	Liquid, or handle as liquid	SHIP-PNL	03/07/95
S94T000204	C103 SEG1 DRLIQ J6236	Liquid, or handle as liquid	HOLDPJC	10/28/94
S95T000049	C103 SEG2 DRLIQ DIR V6274	Liquid, or handle as liquid	@IC-01 @ICP-D03 @TICTOC1 DSC-01 OH-01 TGA-01	01/23/95
S95T000050	C103 C63 CORE COMPOSITE V6771	Liquid, or handle as liquid	SHIP-PNL	03/07/95
S95T000051	C103 SEG4 DRLIQ DIR V6281	Liquid, or handle as liquid	@IC-01 @ICP-D03 CN-01	01/23/95
S95T000052	C103 SEG4 DRLIQ DIR V6505	Liquid, or handle as liquid	@IC-01 @TICTOC1 DSC-01 DSC-02 OH-01 TGA-01	01/23/95
S95T000058	C103 SEG1 LINER LIQ J6127	Liquid, or handle as liquid	HOLDPJC	12/01/94
S95T000059	C103 SEG2 LINER LIQ V6384	Liquid, or handle as liquid	HOLDPJC	01/23/95
S95T000060	C103 SEG2 DRLIQ J6371	Liquid, or handle as liquid	HOLDPJC ORGVOL01 SUBSMPL1	01/23/95
S95T000066	C103 SEG3 LINER LIQ V6393	Liquid, or handle as liquid	HOLDPJC	01/23/95
S95T000067	C103 SEG4 LINER LIQ V6387	Liquid, or handle as liquid	HOLDPJC	01/23/95
S95T000068	C103 SEG4 DRLIQ J6370	Liquid, or handle as liquid	HOLDPJC ORGVOL01 SUBSMPL1	01/23/95
S95T000112	C103 SEG2 DRLIQ DIR V6269	Liquid, or handle as liquid	TOC-01	02/07/95

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
PO#: MDR21
Group#: 94000012
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

WHC-SD-WM-DP-099, REV. 1

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S95T000165	C103 SEG2 DRLIQ DIR V6498	HOLDPJC	Liquid, or handle as liquid	02/15/95
S95T001177	C103 C63&66 DLCOMP1 V7275	DOSE-01 DSC-01 OH-01 TOC-02	Liquid, or handle as liquid	06/20/95
S95T001178	C103 C63&66 DLCOMP2 V7276	DOSE-01 DSC-01 OH-01 TOC-02	Liquid, or handle as liquid	06/20/95
S95T001179	C103 C63&66 DLCOMP J7351	DOSE-01	Liquid, or handle as liquid	06/20/95
S94T000197	C103 C63 SEG 1	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01 NOTEBOOK SLDVOL01 SLDWT-01	Solid, or handle as if solid	10/28/94
S95T000031	C103 C63 SEG 2	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01 NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01	Solid, or handle as if solid	01/17/95
S95T000032	C103 C63 SEG 3	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01 NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01	Solid, or handle as if solid	01/17/95
S95T000033	C103 C63 SEG 4	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01 NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01	Solid, or handle as if solid	01/18/95
S95T000038	C103 SEG2 LH DIR V6286	@TICTOC1 DSC-01 DSC-02 TGA-01	Solid, or handle as if solid	01/23/95
S95T000045	C103 SEG2 UH DIR V6282	@TICTOC1 DSC-01 DSC-02 TGA-01	Solid, or handle as if solid	01/23/95
S95T000046	C103 SEG3 LH DIR V6509	@TICTOC1 DSC-01 DSC-02 TGA-01	Solid, or handle as if solid	01/23/95
S95T000047	C103 SEG3 UH DIR V6503	@TICTOC1 DSC-01 TGA-01	Solid, or handle as if solid	01/24/95
S95T000048	C103 SEG4 UH DIR V6279	@TICTOC1 DSC-01 TGA-01	Solid, or handle as if solid	01/24/95
S95T000053	C103 SEG2 LH FUS V6272	@ALPHA01 @GEA-02 @ICP-F03 @SR90-01 FUSION01	Solid, or handle as if solid	01/24/95
S95T000054	C103 SEG2 UH FUS V6275	@ALPHA01 @GEA-02 @ICP-F03 @SR90-01 FUSION01	Solid, or handle as if solid	01/24/95
S95T000055	C103 SEG3 LH FUS V6502	@ALPHA01 @GEA-02 @ICP-F03 @SR90-01 FUSION01	Solid, or handle as if solid	01/24/95
S95T000056	C103 SEG3 UH FUS V6504	@ALPHA01 @GEA-02 @ICP-F03 @SR90-01 FUSION01	Solid, or handle as if solid	01/24/95
S95T000057	C103 SEG4 UH FUS V6279	@ALPHA01 @GEA-02 @ICP-F03 @SR90-01 FUSION01	Solid, or handle as if solid	01/24/95
S95T000061	C103 SEG2 LH J6366	HOLDPJC HOMGNZ01	Solid, or handle as if solid	01/23/95

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP WHC-SD-WM-DP-099, REV 1
PO#: MDR21
Group#: 94000012
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S95T000062	C103 SEG2 UH J6367	HOLDPJC HOMGNZ01	Solid, or handle as if solid	01/23/95
S95T000064	C103 SEG3 LH J6138	HOLDPJC HOMGNZ01	Solid, or handle as if solid	01/23/95
S95T000065	C103 SEG3 UH J6139	HOLDPJC HOMGNZ01	Solid, or handle as if solid	01/23/95
S95T000069	C103 SEG4 UH J6140	HOLDPJC HOMGNZ01	Solid, or handle as if solid	01/23/95
S95T000094	C103 SEG4 UH HOMOTEST V6278	@ICP-F02 FUSION01	Solid, or handle as if solid	01/30/95
S95T000095	C103 SEG4 UH HOMOTEST V6280	@ICP-F02 FUSION01	Solid, or handle as if solid	01/30/95
S95T000164	C103 SEG2 UH DIR V6520	PARTSZ01	Solid, or handle as if solid	02/15/95
S95T000166	C103 SEG2 UH DIR V6521	SHIP-PNL	Solid, or handle as if solid	02/15/95
S95T000178	C103 C63 CORE COMPOSITE J6539	HOMGNZ01 SUBSMPL1	Solid, or handle as if solid	02/16/95
S95T000525	C103 SEG2 UH H20 V6282	DOSE-02 H2ODIG01 OH-01	Solid, or handle as if solid	03/30/95
S95T000526	C103 SEG3 UH H20 V6503	DOSE-02 H2ODIG01 OH-01	Solid, or handle as if solid	03/30/95
S95T000527	C103 SEG4 UH H20 V6279	@IC-01 H2ODIG01 OH-01	Solid, or handle as if solid	03/30/95
S95T000566	C103 SEG3 LH DIR V6509	DSC-01 DSC-02 TGA-01	Solid, or handle as if solid	03/08/95
S95T000863	C103 SEG3 LH DIR V6953	CN-01 DOSE-01	Solid, or handle as if solid	04/18/95
S95T000866	C103 SEG2 UH DIR V6970	DOSE-01	Solid, or handle as if solid	04/27/95
S95T000867	C103 SEG3 UH DIR V6971	DOSE-01	Solid, or handle as if solid	04/27/95
S95T000871	C103 SEG3 UH DIR V6971	@IC-01 DOSE-02 H2ODIG01 OH-01	Solid, or handle as if solid	04/27/95
S95T000872	C103 SEG2 UH DIR V6970	@IC-01 DOSE-02 H2ODIG01 OH-01	Solid, or handle as if solid	04/27/95
S95T000873	C103 SEG4 UH DIR V6972	DOSE-01	Solid, or handle as if solid	05/01/95
S95T000886	C103 SEG3 UH SAMPLE DESTROYED		Solid, or handle as if solid	05/04/95
S95T000887	C103 SEG4 UH DIR V6976	DOSE-01 WATER-01	Solid, or handle as if solid	05/04/95

Test Acronym Description

Test Acronym	Description

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
PO#: MDR21
Group#: 94000012
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

WHC-SD-WM-DP-099, REV. 1

Test Acronym Description

Test Acronym	Description
@ALPHA01	Alpha of Digested Solid
@GEA-02	GEA:Cs137,Co60,Eu154-155,Am241
@IC-01	Anions by IC - Dionex 4000i
@ICP-D03	ICP (Acid Added to Liquid) Li
@ICP-F02	ICP (Fusion Digest)
@ICP-F03	ICP (Fusion Digest) Li Only
@SR90-01	Sr-89/90 High Level
@TICTOC1	TIC/TOC Acid Persulfate
@TICTOC1	TIC/TOC Acid-Persulfate
CN-01	Cyanide by Microdist. & Spec.
DLIQVOL1	Drainable Liquid Recovrd - Vol
DLIQWT01	Drainable Liquid Recoverd - Wt
DOSE-01	Dose Rate(hotcell) in mrad/hr
DOSE-02	Dose Rate(samp prep)in mrad/hr
DSC-01	DSC Exotherm using Mettler
DSC-02	DSC Exotherm Dry Calculated
EST.G/ML	Estimated g/mL - Calculated
EXTRUD01	Extrusion of a Segment
FUSION01	Fusion with KOH
H2ODIG01	Water Digest-NO ACID Aliquot
HOLDPJC	Hold for Proj Coord Attention
HOMGNZ01	Homogenize Sample
LLIQWT01	Liner Liquid Recoverd - Weight
NOTEBOOK	Notebook with source data
OH-01	OH- by Pot. Titration
ORGVOL01	Organic Vol Present / hotcell
PARTSZ01	Particle Size Analysis
PCREVIEW	Review by Project Coordinator
SHIP-PNL	Ship aliquot of sample to PNL
SLDVOL01	Solids Recovered - Volume
SLDWT-01	Solids Recovered - Weight
SUBSMPL1	Make a Subsample
TGA-01	% Water by TGA using Mettler
TOC-01	Tot. Organic Carbon by Coul.
TOC-02	TOC by Persulfate/Coulometry
WATER-01	% Water by Gravimetric

222-S Analytical Laboratory
P.O. BOX 1970 T6-06, Richland, WA 99352
PHONE: (509) 373-4225/FAX: (509) 373-0545

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
PO#: MDR21
Group#: 95000013
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

The following samples were received from you on 02/09/95. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S Analytical Laboratory.

Sample#	Sample Id	Matrix	Sample Date
	Tests Scheduled		
S95T000207	C103 FIELD BLANK DRLIQ J6540	Liquid, or handle as liquid	02/27/95
	HOLDPJC SUBSMPL1		
S95T000209	C103 SEG1 DRLIQ J6373	Liquid, or handle as liquid	02/27/95
	HOLDPJC ORGVOL01 SUBSMPL1		
S95T000210	C103 SEG2 DRLIQ J6541	Liquid, or handle as liquid	02/27/95
	HOLDPJC SUBSMPL1		
S95T000211	C103 SEG3 DRLIQ J6543	Liquid, or handle as liquid	02/27/95
	HOLDPJC SUBSMPL1		
T000212	C103 FIELD BLANK DIR V6415	Liquid, or handle as liquid	02/27/95
	@IC-01 TOC-01		
S95T000213	C103 SEG4 DRLIQ J6546	Liquid, or handle as liquid	02/27/95
	HOLDPJC SUBSMPL1		
S95T000214	C103 SEG2 DRLIQ DIR-1 V6527	Liquid, or handle as liquid	02/27/95
	@IC-01 DSC-01 OH-01 TGA-01 TOC-02		
S95T000217	C103 SEG2 DRLIQ DIR-2 V6528	Liquid, or handle as liquid	02/27/95
	@ICP-D03		
S95T000218	C103 SEG1 DRLIQ DIR V6497	Liquid, or handle as liquid	02/27/95
	@IC-01 @ICP-D03 DSC-01 OH-01 TGA-01 TOC-02		
S95T000219	C103 SAMPLE NOT USED	Liquid, or handle as liquid	02/27/95
S95T000220	C103 SEG3 DRLIQ DIR-1 V6523	Liquid, or handle as liquid	02/27/95
	@IC-01 DSC-01 OH-01 TGA-01 TOC-02		
S95T000221	C103 SEG3 DRLIQ DIR-2 V6524	Liquid, or handle as liquid	02/27/95
	@ICP-D03		
S95T000222	C103 SEG4 DRLIQ DIR-1 V6526	Liquid, or handle as liquid	02/27/95
	@IC-01 DSC-01 OH-01 TGA-01 TOC-02		
S95T000223	C103 SEG4 DRLIQ DIR-2 V6534	Liquid, or handle as liquid	02/27/95
	@ICP-D03		
S95T000348	C103 SEG2 DRLIQ J6557	Liquid, or handle as liquid	02/25/95
	HOLDPJC		

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
PO#: MDR21
Group#: 95000013
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

WHC-SD-WM-DP-099, REV. 1

Sample#	Sample Id	Matrix	Sample Date
	Tests Scheduled		
S95T000349	C103 SEG1 LINER LIQ V6417	Liquid, or handle as liquid	02/25/95
	HOLDPJC		
S95T000350	C103 SEG3 LINER LIQ V6382	Liquid, or handle as liquid	02/25/95
	HOLDPJC		
S95T000351	C103 SEG3 DRLIQ J6563	Liquid, or handle as liquid	02/25/95
	HOLDPJC		
S95T000352	C103 SEG4 LINER LIQ J6545	Liquid, or handle as liquid	02/25/95
	HOLDPJC		
S95T000353	C103 FIELD BLANK DRLIQ J6562	Liquid, or handle as liquid	02/25/95
	HOLDPJC		
S95T000124	C103 C66 SEG 1	Solid, or handle as if solid	02/06/95
	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
	NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T000125	C103 C66 SEG 2	Solid, or handle as if solid	02/06/95
	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
	NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T000126	C103 C66 SEG 3	Solid, or handle as if solid	02/07/95
	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
	NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T000127	C103 C66 SEG 4	Solid, or handle as if solid	02/07/95
	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
	NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T000128	C103 C66 FIELD BLANK	Solid, or handle as if solid	02/07/95
	DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
	NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T000215	C103 SEG3 UH V6564	Solid, or handle as if solid	02/27/95
	HOLDPJC HOMGNZ01		
S95T000216	C103 SEG4 UH V6558	Solid, or handle as if solid	02/27/95
	HOLDPJC HOMGNZ01		
S95T000224	C103 SEG3 UH DIR V6529	Solid, or handle as if solid	03/02/95
	@TICTOC1 DSC-01 TGA-01		
S95T000225	C103 SEG4 UH DIR V6532	Solid, or handle as if solid	03/02/95
	@TICTOC1 DSC-01 TGA-01		
S95T000226	C103 SEG3 UH FUS V6530	Solid, or handle as if solid	03/02/95
	@ALPHA01 @ICP-F03 FUSION01		
S95T000227	C103 SEG4 UH FUS V6533	Solid, or handle as if solid	03/02/95
	@ALPHA01 @ICP-F03 FUSION01		
S95T000528	C103 SEG3 UH H2O V6529	Solid, or handle as if solid	03/30/95
	@IC-01 H2ODIG01 OH-01		
S95T000529	C103 SEG4 UH H2O V6532	Solid, or handle as if solid	03/30/95
	@IC-01 H2ODIG01 OH-01		

Test Acronym Description

Test Acronym	Description

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
PO#: MDR21
Group#: 95000013
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

HNC-CD-WM-DP-099, REV. 1

Test Acronym Description

Test Acronym	Description
@ALPHA01	Alpha of Digested Solid
@IC-01	Anions by IC - Dionex 4000i
@ICP-D03	ICP (Acid Added to Liquid) Li
@ICP-F03	ICP (Fusion Digest) Li Only
@TICTOC1	TIC/TOC Acid Persulfate
DLIQVOL1	Drainable Liquid Recovrd - Vol
DLIQWT01	Drainable Liquid Recoverd - Wt
DSC-01	DSC Exotherm using Mettler
EST.G/ML	Estimated g/mL - Calculated
EXTRUD01	Extrusion of a Segment
FUSION01	Fusion with KOH
H2ODIG01	Water Digest-NO ACID Aliquot
HOLDPJC	Hold for Proj Coord Attention
HOMGNZ01	Homogenize Sample
LLIQWT01	Liner Liquid Recoverd - Weight
NOTEBOOK	Notebook with source data
OH-01	OH- by Pot. Titration
ORGVOL01	Organic Vol Present / hotcell
PCREVIEW	Review by Project Coordinator
SLDVOL01	Solids Recovered - Volume
SLDWT-01	Solids Recovered - Weight
SUBSMPL1	Make a Subsample
TGA-01	% Water by TGA using Mettler
TOC-01	Tot. Organic Carbon by Coul.
TOC-02	TOC by Persulfate/Coulometry

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ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

HNC-SD-WM-DP- 099, REV 1

Customer Code: TCP
PO#: MDR21
Group#: 94000015
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

The following samples were received from you on 11/09/94. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S Analytical Laboratory.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S94T000202	C103 SEG1 C63	ORLIQ ARCH V6192 ARCHIVE	Liquid, or handle as liquid	10/28/94
S94T000203	C103 SEG1 C63	AQLIQ ARCH V7024 ARCHIVE	Liquid, or handle as liquid	10/28/94
S95T000070	C103 SEG2 C63	DRLIQ ARCH V6452 ARCHIVE	Liquid, or handle as liquid	01/23/95
S95T000076	C103 SEG4 C63	DRLIQ ARCH V6396 ARCHIVE	Liquid, or handle as liquid	01/23/95
S95T000077	C103 C63 CORE	COMP J6572 ARCHIVE	Liquid, or handle as liquid	01/23/95
S95T000403	C103 SEG1 C66	ORLIQ ARCH V6525 ARCHIVE	Liquid, or handle as liquid	02/06/95
S95T000404	C103 SEG2 C66	DRLIQ ARCH V6414 ARCHIVE	Liquid, or handle as liquid	02/06/95
S95T000405	C103 SEG3 C66	DRLIQ ARCH V6408 ARCHIVE	Liquid, or handle as liquid	02/06/95
S95T000406	C103 SEG4 C66	DRLIQ ARCH V6412 ARCHIVE	Liquid, or handle as liquid	02/06/95
S95T000407	C103 SEG1 C66	JAR DESTROYED	Liquid, or handle as liquid	02/06/95
S95T000733	C103 C63 DUMMY	SAMPLE PCREVIEW	Liquid, or handle as liquid	01/23/95
S95T000071	C103 SEG2 C63	LH ARCH V6451 ARCHIVE	Solid, or handle as if solid	01/23/95
S95T000072	C103 SEG2 C63	UH ARCH V6453 ARCHIVE	Solid, or handle as if solid	01/23/95
S95T000073	C103 SEG3 C63	LH ARCH V6454 ARCHIVE	Solid, or handle as if solid	01/23/95
S95T000074	C103 SEG3 C63	UH ARCH V6394 ARCHIVE	Solid, or handle as if solid	01/23/95

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
PO#: MDR21
Group#: 94000015
Project#: C-103
Proj Mgr: Kevin Bell
Phone: 373-1629

WHC-CD-WM-OP-099, REV. 1

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S95T000075	C103 SEG4 C63	UH ARCH V6395 ARCHIVE	Solid, or handle as if solid	01/23/95
S95T000408	C103 SEG3 C66	UH ARCH V6746 ARCHIVE	Solid, or handle as if solid	02/06/95
S95T000409	C103 SEG4 C66	UH ARCH V6440 ARCHIVE	Solid, or handle as if solid	02/06/95
S95T000535	C103 C63 CORE	COMP ARCH J6539 ARCHIVE	Solid, or handle as if solid	03/08/95

Test Acronym Description

Test Acronym	Description
ARCHIVE	Archive an aliquot of sample
PCREVIEW	Review by Project Coordinator

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SAMPLE HANDLING

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LABCORE Data Entry Template for Worklist# 153

Analyst: EC Instrument: BA002 _____ Method: LO-160-103 A-6

Worklist Comment: C-103 Core 63 Segment #1 Extrusion WHC-SD-WM-DP-~~080~~ 099, REV. 1 JW 9/25/95

Seg	Type	Sample#		Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01				EXTRUD01	SOLID	20.00	19.99	N/A	
2	INSTCHK02				EXTRUD01	SOLID	500.00	499.98	N/A	
3	SAMPLE	S94T000197		0	DLIQVOL1	SOLID	N/A	220		mL
4	SAMPLE	S94T000197		0	DLIQWT01	SOLID	N/A	225.8		g
5	SAMPLE	S94T000197		0	EXTRUD01	SOLID	N/A	Complete		
6	SAMPLE	S94T000197		0	LLIQWT01	SOLID	N/A	5.5		g
7	SAMPLE	S94T000197		0	NOTEBOOK	SOLID	N/A	WHC-N-1099		
8	SAMPLE	S94T000197		0	SLDVOL01	SOLID	N/A	N/A		mL
9	SAMPLE	S94T000197		0	SLDWT-01	SOLID	N/A	N/A		g
10	SAMPLE	S94T000197		0	EST.G/ML	SOLID	N/A	N/A		g/mL

Final page for worklist # 153

Analyst Signature

Keith Fuller

Date 11/4/94

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units. *Page:* 1

LABCORE Data Entry Template for Worklist# 432

Analyst: EC **Instrument:** BA000 **Method:** LO-160-103 A-6

Worklist Comment: C-103 C63 Segment #2 Extrusion WHC-SD-WM-DP-080, REV. 1

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	INSTCHK01				EXTRUD01	SOLID	20	17.99	N/A	
2	INSTCHK02				EXTRUD01	SOLID	500	499.90	N/A	
3	SAMPLE	S95T000031		0	DLIQVOL1	SOLID	N/A	150		mL
4	SAMPLE	S95T000031		0	DLIQWT01	SOLID	N/A	173.6		g
5	SAMPLE	S95T000031		0	EST.G/ML	SOLID	N/A	1.2		g/mL
6	SAMPLE	S95T000031		0	EXTRUD01	SOLID	N/A	Complete		
7	SAMPLE	S95T000031		0	LLIQWT01	SOLID	N/A	1.87		g
8	SAMPLE	S95T000031		0	NOTEBOOK	SOLID	N/A	HC-N-1071		
9	SAMPLE	S95T000031		0	SLDVOL01	SOLID	N/A	133		mL
10	SAMPLE	S95T000031		0	SLDWT-01	SOLID	N/A	100		g
11	SAMPLE	S95T000031		0	ORGVOL01	SOLID	N/A	0		mL
12	SAMPLE	S95T000031		0	FSLDWT01	SOLID	N/A	0		g

Final page for worklist # 432

Analyst Signature **Date** 1-24-95

Data Entry Comments: Reviewed by [illegible] 01/27/95

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 433

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: C-103 C63 Segment #3 Extrusion WHC-SD-WM-DP-088 REV.1 9/12/95

Seg	Type	Sample#		Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01				EXTRUD01	SOLID	20	14.73	N/A	
2	INSTCHK02				EXTRUD01	SOLID	500	499.66	N/A	
3	SAMPLE	S95T000032		0	DLIQVOL1	SOLID	N/A	0		mL
4	SAMPLE	S95T000032		0	DLIQWT01	SOLID	N/A	0		g
5	SAMPLE	S95T000032		0	EST.G/ML	SOLID	N/A	0		g/mL
6	SAMPLE	S95T000032		0	EXTRUD01	SOLID	N/A	[illegible]		
7	SAMPLE	S95T000032		0	LLIQWT01	SOLID	N/A	[illegible]		g
8	SAMPLE	S95T000032		0	NOTEBOOK	SOLID	N/A	[illegible]		
9	SAMPLE	S95T000032		0	SLDVOL01	SOLID	N/A	270		mL
10	SAMPLE	S95T000032		0	SLDWT-01	SOLID	N/A	40[illegible]		g
	SAMPLE	S95T000032		0	ORGVOL01	SOLID	N/A	0		mL
12	SAMPLE	S95T000032		0	FSLDWT01	SOLID	N/A	0		g

Final page for worklist # 433

Analyst Signature

Date 02-07-95

Data Entry Comments:

Reviewed by

Units shown for QC (SPK) may not reflect the actual units. Page: 1

LABCORE Data Entry Template for Worklist# 434

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: C-103 C63 Segment #4 Extrusion WHC-SD-WM-DP-~~080~~ 099, REV. 1 9/20/95

Seg	Type	Sample#		Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01				EXTRUD01	SOLID	20	[illegible]	N/A	
2	INSTCHK02				EXTRUD01	SOLID	[illegible]	499.95	N/A	
3	SAMPLE	S95T000033		0	DLIQVOL1	SOLID	N/A	66		mL
4	SAMPLE	S95T000033		0	DLIQWT01	SOLID	N/A	[illegible]		g
5	SAMPLE	S95T000033		0	EST.G/ML	SOLID	N/A	1.[illegible]		g/mL
6	SAMPLE	S95T000033		0	EXTRUD01	SOLID	N/A	[illegible]		
7	SAMPLE	S95T000033		0	LLIQWT01	SOLID	N/A	[illegible]		g
8	SAMPLE	S95T000033		0	NOTEBOOK	SOLID	N/A	[illegible]		
9	SAMPLE	S95T000033		0	SLDVOL01	SOLID	N/A	194		mL
10	SAMPLE	S95T000033		0	SLDWT-01	SOLID	N/A	[illegible]		g
11	SAMPLE	S95T000033		0	ORGVOL01	SOLID	N/A	2		ml
12	SAMPLE	S95T000033		0	FSLDWT01	SOLID	N/A	[illegible]		g

Final page for worklist # 434

Analyst Signature

1-26-95
Date
02-08-95

Data Entry Comments:

Reviewed by

Units shown for QC (SPK) may not reflect the actual units.

Page: 1

LABCORE Data Entry Template for Worklist# 599

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: C-103 C66 Seg 1 Extrusion WHC-SD-WM-DP-~~080~~ 099, REV. 1 JMN 3/21/95

Seg	Type	Sample#	Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01			EXTRUD01	SOLID	20	20.00	N/A	
2	INSTCHK02			EXTRUD01	SOLID	500	499.98	N/A	
3	SAMPLE	S95T000124	0	DLIQVOL1	SOLID	N/A	200		mL
4	SAMPLE	S95T000124	0	DLIQWT01	SOLID	N/A	~~207~~ 195 EC 2-25-95		g
5	SAMPLE	S95T000124	0	EST.G/ML	SOLID	N/A	1		g/mL
6	SAMPLE	S95T000124	0	EXTRUD01	SOLID	N/A	Complete		
7	SAMPLE	S95T000124	0	LLIQWT01	SOLID	N/A	11.85		g
8	SAMPLE	S95T000124	0	NOTEBOOK	SOLID	N/A	WHC-N-1079		
9	SAMPLE	S95T000124	0	SLDVOL01	SOLID	N/A	0		mL
10	SAMPLE	S95T000124	0	SLDWT-01	SOLID	N/A	0		g
[illegible]	SAMPLE	S95T000124	0	ORGVOL01	SOLID	N/A	~~29~~ 25 2-25-95		mL

Final page for worklist # 599

EC
Analyst Signature

2-28-95
Date

Data Entry Comments: Review Complete 3/1/95. RKT

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 601

Analyst: SC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: C-103 C66 Seg #2 Extrusion WHC-SD-WM-DP- ~~DAD~~ DPP, REV. 1 PCW 4/25/95

Seg	Type	Sample#		Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01				EXTRUD01	SOLID	20	20.00	N/A	
2	INSTCHK02				EXTRUD01	SOLID	500	499.98	N/A	
3	SAMPLE	S95T000125		0	DLIQVOL1	SOLID	N/A	310		mL
4	SAMPLE	S95T000125		0	DLIQWT01	SOLID	N/A	330		g
5	SAMPLE	S95T000125		0	EST.G/ML	SOLID	N/A	1.06		g/mL
6	SAMPLE	S95T000125		0	EXTRUD01	SOLID	N/A	complete		
7	SAMPLE	S95T000125		0	LLIQWT01	SOLID	N/A	0		g
8	SAMPLE	S95T000125		0	NOTEBOOK	SOLID	N/A	WHC-N-1079		
9	SAMPLE	S95T000125		0	SLDVOL01	SOLID	N/A	0		mL
10	SAMPLE	S95T000125		0	SLDWT-01	SOLID	N/A	0		g
11	SAMPLE	S95T000125		0	ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 601

Analyst Signature

2-28-95
Date

Data Entry Comments: Data Review 3/1/95 RKZ

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 617

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: C-103 C66 Seg # 3 Extrusion WHC-SD-WM-DP-~~080~~ 699 REV. 1 9/25/95

Seg	Type	Sample#		Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
2	INSTCHK02				EXTRUD01	SOLID	500	499.97	N/A	
3	SAMPLE	S95T000126		0	DLIQVOL1	SOLID	N/A	240		mL
4	SAMPLE	S95T000126		0	DLIQWT01	SOLID	N/A	280		g
5	SAMPLE	S95T000126		0	EST.G/ML	SOLID	N/A	1.16		g/mL
6	SAMPLE	S95T000126		0	EXTRUD01	SOLID	N/A	complete		
7	SAMPLE	S95T000126		0	LLIQWT01	SOLID	N/A	4.85		g
8	SAMPLE	S95T000126		0	NOTEBOOK	SOLID	N/A	WHC-IN-1029		
9	SAMPLE	S95T000126		0	SLDVOL01	SOLID	N/A	37		mL
10	SAMPLE	S95T000126		0	SLDWT-01	SOLID	N/A	43.66		g
	SAMPLE	S95T000126		0	ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 617

Analyst Signature

2-28-95
Date

Data Entry Comments: Data Review Complete 3/1/95 RKF

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 618

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-17 9/25/95

Worklist Comment: C-103 C66 Seg # 4 Extrusion WHC-SD-WM-DP-~~080~~ 099, REV 1

Seg	Type	Sample#	Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01			EXTRUD01	SOLID	20	19.98	N/A	
2	INSTCHK02			EXTRUD01	SOLID	500	499.97	N/A	
3	SAMPLE	S95T000127	0	DLIQVOL1	SOLID	N/A	85		mL
4	SAMPLE	S95T000127	0	DLIQWT01	SOLID	N/A	89		g
5	SAMPLE	S95T000127	0	EST.G/ML	SOLID	N/A	1		g/mL
6	SAMPLE	S95T000127	0	EXTRUD01	SOLID	N/A	Complete		
7	SAMPLE	S95T000127	0	LLIQWT01	SOLID	N/A	125		g
8	SAMPLE	S95T000127	0	NOTEBOOK	SOLID	N/A	WHC-N-1079		
9	SAMPLE	S95T000127	0	SLDVOL01	SOLID	N/A	58		mL
10	SAMPLE	S95T000127	0	SLDWT-01	SOLID	N/A	58		g
11	SAMPLE	S95T000127	0	ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 618

E Al d
Analyst Signature

2-28-95
Date

Data Entry Comments: Complete 3/1/95 RKY

Units shown for QC (SPK) may not reflect the actual units.

Page: 1

Temp. 76.1° Humity 20%

LABCORE Data Entry Template for Worklist# 602

Analyst: EC **Instrument:** BA000 **Method:** LO-160-103 A-7

Worklist Comment: C-103 C66 Field Blank Extrusion WHC-SD-WM-DP-~~OKT~~ 099, REV. 1 pW 9/25/95

Seg	Type	Sample#	Rep	AlTest	Matrix	Actual	Found	DL	Uni
1	INSTCHK01			EXTRUD01	SOLID	20.00	19.98	N/A	
2	INSTCHK02			EXTRUD01	SOLID	500	499.966	N/A	
3	SAMPLE	S95T000128	0	DLIQVOL1	SOLID	N/A	255		mL
4	SAMPLE	S95T000128	0	DLIQWT01	SOLID	N/A	255		g
5	SAMPLE	S95T000128	0	EST.G/ML	SOLID	N/A	1		g/mL
6	SAMPLE	S95T000128	0	EXTRUD01	SOLID	N/A	complete		
7	SAMPLE	S95T000128	0	LLIQWT01	SOLID	N/A	0		g
8	SAMPLE	S95T000128	0	NOTEBOOK	SOLID	N/A	WHC-N-1079		
9	SAMPLE	S95T000128	0	SLDVOL01	SOLID	N/A	0		mL
10	SAMPLE	S95T000128	0	SLDWT-01	SOLID	N/A	0		g
'	SAMPLE	S95T000128	0	ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 602

R Hunter
Analyst Signature

2/24/95
Date

2/28/95

Data Entry Comments: Complete review 3/1/95 RKT

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 1256

Analyst: EC **Instrument:** BA000 **Book #** 1212

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

WHC-SD-WM-DP- 099, REV. 1

Worklist Comment: C-103 Archive Samples

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01				EXTRUD01	SOLID	20	20.00	N/A	
		2 INSTCHK02				EXTRUD01	SOLID	500	499.99	N/A	
94000015	C-103	3 SAMPLE	S95T000408	0	X	ARCHIVE 6746	SOLID	N/A	20.62		g
94000015	C-103	4 SAMPLE	S95T000409	0	X	ARCHIVE 6496	SOLID	N/A	59.93		g
94000015	C-103	5 SAMPLE	S95T000535	0	X	ARCHIVE 6551	SOLID	N/A	~~61.26~~ 64.26 4-27-95		g
94000015	C-103	6 SAMPLE	S95T000403	0	X	ARCHIVE 6525	LIQUID	N/A	1.42		g
94000015	C-103	7 SAMPLE	S95T000404	0	X	ARCHIVE 6414	LIQUID	N/A	32.71		g
94000015	C-103	8 SAMPLE	S95T000405	0	X	ARCHIVE 6403	LIQUID	N/A	32.64		g
94000015	C-103	9 SAMPLE	S95T000406	0	X	ARCHIVE 6412	LIQUID	N/A	32.67		g

Final page for worklist # 1256

Analyst Signature 4-27-95 Date

Analyst Signature 4-27-95 Date

Data Entry Comments: Reviewed / K Berg 5/1/95

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

LABCORE Data Entry Template for Worklist# 294

Analyst: EC **Instrument:** BA000 **Method:** LO-160-103 H-6

Worklist Comment: C-103 ARCHIVE & ORGLIQ WHC-SD-WM-DP-~~050~~ 099, REV. 1 AW 9/15/95

Seg	Type	Sample#	Rep	AI	Test	Matrix	Actual	Found	DL	Unit
1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
2	INSTCHK02				EXTRUD01	SOLID	500	499.97	N/A	
3	SAMPLE	S94T000200	0		ORGVOL01	LIQUID	N/A	.20		mL
4	SAMPLE	S94T000202	0	X	ARCHIVE	LIQUID	N/A	13.7		g
5	SAMPLE	S94T000203	0	X	ARCHIVE	LIQUID	N/A	38.3		g

Final page for worklist # 294

EC
Analyst Signature

12-20-94
Date

Arlen B. Berg 12-21-94

Data Entry Comments:

Reviewed by Arlen B. Berg 12-21-94

Units shown for QC (SPK) may not reflect the actual units.

Page: 1

LABCORE Data Entry Template for Worklist# 1291

C103

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

Method: LO-160-103 Rev/Mod A-7 WHC-SD-WM-DP- 189, REV. 1

Worklist Comment: Shipment Samples

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	499.70	N/A	
94000017	C-108	3	SAMPLE	S95T000179	0	P	6130 LANL SHIP-PNL 6612	SOLID	N/A	73.4		
94000012	C-103	4	SAMPLE	S95T000166	0	P	6367 SHIP-PNL 6521	SOLID	N/A	10.60		
95000017	TY-104	5	SAMPLE	S95T000244	0	P	6521 6476 LANL SHIP-PNL 7094	SOLID	N/A	76.41		
95000020	C-107	6	SAMPLE	S95T000860	0	P	6772 LANL SHIP-PNL 7150	SOLID	N/A	69.36		
95000023	C-107	7	SAMPLE	S95T000862	0	P	6773 LANL SHIP-PNL 7149	SOLID	N/A	71.77		
94000020	SY-103	8	SAMPLE	S95T000740	0	P	Sky Corp SHIP-PNL 7095	LIQUID	N/A	132.7		
94000012	C-103	9	SAMPLE	S94T000201	0	P	6539 SHIP-PNL 6770	LIQUID	N/A	34.52		
94000012	C-103	10	SAMPLE	S95T000050	0	P	6539 SHIP-PNL 6771	LIQUID	N/A	37.44		

Final page for worklist # 1291

5-2-95
Analyst Signature Date

5-2-95
Analyst Signature Date

Data Entry Comments:

5-3-95

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.

SAMPLE PREPARATIONS

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LABCORE Data Entry Template for Worklist# 515

Analyst: ABB **Instrument:** BA000 **Method:** LO-160-103 ~~4~~ 7

Worklist Comment: C-103 Core 63 Homogenization/Archive WHC-SD-WM-DP- ~~087~~ 099, REV. 1 2/15/95

Seg	Type	Sample#	Rep	Al	Test		Matrix	Actual	Found	DL	Unit
1	INSTCHK01				EXTRUD01		SOLID	26	20.02	N/A	
2	INSTCHK02				EXTRUD01		SOLID	500	499.99	N/A	
3	SAMPLE	S95T000071	0	X	ARCHIVE	6451	SOLID	N/A	8.53		g
4	SAMPLE	S95T000072	0	X	ARCHIVE	6453	SOLID	N/A	41.61		g
5	SAMPLE	S95T000073	0	X	ARCHIVE	6454	SOLID	N/A	46.0		g
6	SAMPLE	S95T000074	0	X	ARCHIVE	6391	SOLID	N/A	41.65		g
7	SAMPLE	S95T000075	0	X	ARCHIVE	6395	SOLID	N/A	57.03		g
8	SAMPLE	S95T000070	0	X	ARCHIVE	6452	LIQUID	N/A	28.14		g
9	SAMPLE	S95T000076	0	X	ARCHIVE	6396	LIQUID	N/A	27.62		g
10	SAMPLE	S95T000077	0	X	ARCHIVE		LIQUID	N/A	0 ABB/15Feb95 ~~57.03~~		g
	SAMPLE	S95T000064	0		HOMGNZ01	6138 (350)	SOLID	N/A	170.83 ~~5.1~~ ABB/15Feb95		
12	SAMPLE	S95T000065	0		HOMGNZ01	6139 (350)	SOLID	N/A	120.88 ~~7.65~~ ABB/15Feb95		
13	SAMPLE	S95T000069	0		HOMGNZ01	6140 (350)	SOLID	N/A	152.33		
14	SAMPLE	S95T000061	0		HOMGNZ01	6306 (125)	SOLID	N/A	0 ~~6.56~~ ABB/15Feb95		
15	SAMPLE	S95T000062	0		HOMGNZ01	6307 (125)	SOLID	N/A	65.65 ~~4.4~~ ABB/15Feb95		

Final page for worklist # 515

Analyst Signature

15 Feb 95
Date

16 Feb 95

Data Entry Comments:

Reviewed by 15 Feb 95

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 480

Analyst: EAL **Instrument:** FUS01AL11066 **Method:** LA-549-141 C-2

Worklist Comment: C-103 FUSION DIGEST - 38->53, 45->54 Bob Clements 1500 mRuthr

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	BLNK-PREP				FUSION01	SOLID	250ml	250ml	N/A	g/L
2	SAMPLE	S95T000053	0	F	FUSION01	SOLID	N/A	2.0188		g/L
3	DUP	S95T000053	0	F	FUSION01	SOLID	2.0188	2.0352	N/A	g/L
4	SAMPLE	S95T000054	0	F	FUSION01	SOLID	N/A	1.9956		g/L
5	DUP	S95T000054	0	F	FUSION01	SOLID	1.9956	1.9996	N/A	g/L

Final page for worklist # 480

Analyst Signature 02/01/95 **Date** 2/1/95

053

50 ml HCL

$\frac{.5047g}{.250l} = 2.0188 g/l$

053 DUP

50ml HCL

$\frac{.5088g}{.250l} = 2.0352$

054

50ml HCL

$\frac{.4989g}{.250l} = 1.9956 g/l$

054 DUP

50ml HCL

$\frac{.4999g}{.250l} = 1.9996 g/l$

Data Entry Comments: ALL SAMPLES HAVE BROWN PARTICULATES AT BOTTOM OF CONTAINER. COLOR GREEN BUT CLEAR.

Bertrand Griffin II 2-13-95

Units shown for QC (SPK) may not reflect the actual units. 099 RW 9/25/95 *Page:* 1

LABCORE Data Entry Template for Worklist# 579

1250mrad/h

Analyst: MCJ **Instrument:** FUS01 _____ **Method:** LA-549-141 C-2

Worklist Comment: C-103 FUSION DIGEST - 55, 56, SAMPLE SIZE-.1g->250ml

Seq	Type	Sample#	Rep	A!	Test	Matrix	Actual	Found	DL	Unit
1	BLNK-PREP				FUSION01	SOLID	250	250	N/A	g/L
2	SAMPLE	S95T000055	0	F	FUSION01	SOLID	N/A	0.4680		g/L
3	DUP	S95T000055	0	F	FUSION01	SOLID	0.4680	0.3640	N/A	g/L
4	SAMPLE	S95T000056	0	F	FUSION01	SOLID	N/A	0.4040		g/L
5	DUP	S95T000056	0	F	FUSION01	SOLID	0.4040	0.3760	N/A	g/L

Final page for worklist # 579

Mike Jones
Analyst Signature

3-3-95
Date

Bertrand Griffin II 3-3-95

55 sam $\frac{.1170g}{.250L} = .4680g/l$ 30mL HCL

55 dup $\frac{.0910g}{.250L} = .3640g/l$ 25mL HCL

56 sam $\frac{.1010g}{.250L} = .4040g/l$ 20mL HCL

56 dup $\frac{.0940g}{.250L} = .3760g/l$ 20mL HCL

Data Entry Comments:
Both samples were a brown sludge. 55 sample and dup had less than 2% solids after digestion.
9/25/95
Bertrand Griffin II 099 3-3-95

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 580

150mr/hr
HPT Sam Shemal

Analyst: JDS **Instrument:** FUS01 _____ **Method:** LA-549-141 C-2

Worklist Comment: C-103 FUSION DIGEST - 94, 95, SAMPLE SIZE-.1g->250ml

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	BLNK-PREP				FUSION01	SOLID	250mL	250mL	N/A	g/L
2	SAMPLE	S95T000094	0	F	FUSION01	SOLID	N/A	.6120 ~~6.12~~		g/L
3	SAMPLE	S95T000095	0	F	FUSION01	SOLID	N/A	.4040 ~~5.04~~		g/L

Final page for worklist # 580

Jak Spelm
Analyst Signature

2-17-95
Date

2-20-95

099 JNW 9/25/95

WHC-SD-WM-DP-~~080~~, REV. 1

Blank 0.0 → 250 mL
S95T00094 .153g → 250mL
S95T00095 .126g → 250mL

Data Entry Comments: Both Samples had a slight yellow tinge
Both < 1% solids

I used appox. 30ml of HCl to dissolve solids in each sample.

Units shown for QC (SPK) may not reflect the actual units.

Bertrand Griffin II 2-21-95

LABCORE Data Entry Template for Worklist# 643

Analyst: MCJ **Instrument:** FUS01 AL11066 **Book #** 110

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: C-103 FUSION DIGEST - 57 SAMPLE SIZE - .1G---> .250L

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				FUSION01	SOLID	250	250	N/A	g/L
94000012	C-103	2 SAMPLE	S95T000057	0	F	FUSION01	SOLID	N/A	.4080		g/L
94000012	C-103	3 DUP	S95T000057	0	F	FUSION01	SOLID	.4080	.4440	N/A	g/L

Final page for worklist # 643

Mike Jones 3-4-95
Analyst Signature **Date**

Bertrand Griffin II 3-6-95
Analyst Signature **Date**

15ml HCl

57 Smp $\frac{.102g}{.250L} = .4080 g/L$

$\frac{75 mRad/hr}{5 mR/hr}$ © CB 3/4/95

15ml HCl

57 Dup $\frac{.111g}{.250L} = .4440 g/L$

$\frac{75 mRad/hr}{5 mR/hr}$ ©

Data Entry Comments: Parent Sample is number S95T000048.

Bertrand Griffin II 3-6-95

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

LABCORE Data Entry Template for Worklist# 668

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

Method: LA-549-141 Rev/Mod C-2

Worklist Comment: C-103 FUSION DIGEST - ~~215~~ mcj 3/95 >226, ~~216~~ mcj >227, NOTE DOSE RATE

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				FUSION01	SOLID	250	250	N/A	g/L
95000013	C-103	2 SAMPLE	S95T000226	0	F	FUSION01	SOLID	N/A	.4200		g/L
95000013	C-103	3 DUP	S95T000226	0	F	FUSION01	SOLID	.4200	.4640	N/A	g/L
95000013	C-103	4 SAMPLE	S95T000227	0	F	FUSION01	SOLID	N/A	.4040		g/L
95000013	C-103	5 DUP	S95T000227	0	F	FUSION01	SOLID	.4040	.4520	N/A	g/L

Final page for worklist # 668

Mike Jones 3-7-95
Analyst Signature **Date**

226 Smp .1059 / .250L = .4200 g/L (20 ml HCl)

226 Dup .1169 / .250L .4640 g/L (20 ml HCl)

Bertrand Griffin II 3-8-95
Analyst Signature **Date**

227 Smp .1019 / .250L = .4040 g/L (20 ml HCl)

227 Dup .1139 / .250L = .4520 g/L (20 ml HCl)

Data Entry Comments: C-103 Each Reading about 100 mrem/hr corr. to entire contents of samples 600 mrem/hr

Bertrand Griffin II 3-8-95 3/4/95

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# 1166

Analyst: LWH2 **Instrument:** H2O01 #110266 **Book #** N/A

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

Worklist Comment: C-103 WATER DGST - 45->525, 47->526, 48->527; USE .25G ONLY

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H2ODIG01	SOLID	100mL	100mL	N/A	g/L
100mL Tot Vol												
94000012	C-103	2	SAMPLE	S95T000525	0	W	H2ODIG01	SOLID	N/A	1.5030g/L		g/L
0.1503g → 100mL												
94000012	C-103	3	DUP	S95T000525	0	W	H2ODIG01	SOLID	1.5030g/L	—	N/A	g/L
Insufficient sample												
94000012	C-103	4	SAMPLE	S95T000526	0	W	H2ODIG01	SOLID	N/A	2.4460g/L		g/L
~~0.1103g~~ 04/25/95 → 0.2446g → 100mL												
94000012	C-103	5	DUP	S95T000526	0	W	H2ODIG01	SOLID	2.4460g/L	1.1030g/L	N/A	g/L
0.1103g → 100mL												
94000012	C-103	6	SAMPLE	S95T000527	0	W	H2ODIG01	SOLID	N/A	2.7650g/L		g/L
0.2765g → 100mL												
94000012	C-103	7	DUP	S95T000527	0	W	H2ODIG01	SOLID	2.7650g/L	2.9350g/L	N/A	g/L
0.2935g → 100mL												

Final page for worklist # 1166

Ann Marie [illegible] 04/26/95 [illegible]
Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments: Sample 525 had insufficient amount to run dup. Sample 526 had enough for only partial Dup. Dose Rate 5mR/hr by Joe Valdez <[illegible] 04/26/95>

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

Bertrand Diffie II 5-1-95

LABCORE Data Entry Template for Worklist# 1167

Analyst: LMH2 **Instrument:** H2O01 AL11066 **Book #** N/A

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

Worklist Comment: C-103 WATER DGST - 224->528, 225->529; USE .25G ONLY

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK>PREP				H2ODIG01	SOLID	100 mL Tot. Vol	100	N/A	g/L
95000013	C-103	2	SAMPLE	S95T000528	0	W	H2ODIG01	SOLID	N/A	2.9180		g/L
									0.2918g → 100 mL			
95000013	C-103	3	DUP	S95T000528	0	W	H2ODIG01	SOLID	2.9180	2.8650	N/A	g/L
									0.2865g → 100 mL	05/05/95 [illegible] 2200		
95000013	C-103	4	SAMPLE	S95T000529	0	W	H2ODIG01	SOLID	N/A	3.32		g/L
									0.3220g → 100 mL			
95000013	C-103	5	DUP	S95T000529	0	W	H2ODIG01	SOLID	3.2200	3.3120	N/A	g/L
									0.3312g → 100 mL			

Final page for worklist # 1167

[illegible] 05/05/95
Analyst Signature **Date**

[illegible] 5-5-95
Analyst Signature **Date**

Data Entry Comments: Samples were non-homogeneous. Samples were dose rated @ 1 mRad/hr by Pam Hodges (PHH 05/05/95) SD# 5-5-95

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

LABCORE Data Entry Template for Worklist# 1296

Analyst: RL McCown **Instrument:** H2O01 4L11066 **Book #** NA

Method: LA-504-101 Rev/Mod C-0 WHC-SD-WM-DP- 099 REV. 1

Worklist Comment: C-103 WATER - 867->871, 866->872

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIG01	SOLID	100mL	100mL	N/A	g/L
94000012	C-103	2 SAMPLE	S95T000871	0	W	H2ODIG01	SOLID	N/A	3.7930		g/L
94000012	C-103	3 DUP	S95T000871	0	W	H2ODIG01	SOLID	3.7930	3.9250	N/A	g/L
94000012	C-103	4 SAMPLE	S95T000872	0	W	H2ODIG01	SOLID	N/A	5.0970		g/L
94000012	C-103	5 DUP	S95T000872	0	W	H2ODIG01	SOLID	5.0970	5.3550	N/A	g/L

Final page for worklist # 1296

RL McCown 5/6/95
Analyst Signature **Date**

Bettina D. Jiffin II 5-8-95
Analyst Signature **Date**

SAMPLE 871

$\frac{.3793g}{100mL} = 3.7930 g/L$

871 DUP

$\frac{.3925g}{100mL} = 3.9250 g/L$

SAMPLE 872

$\frac{.5097g}{100mL} = 5.0970 g/L$

872 DUP

$\frac{.5355g}{100mL} = 5.3550 g/L$

Data Entry Comments: HPT: Bam Shernal BJJ II 5-8-95
Dose Rate: 5mrad/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.

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INORGANIC ANALYSES

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LABCORE Data Entry Template for Worklist# 955

Analyst: SMF **Instrument:** DSC01 **Book #** 12N14-A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run C-103 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	28.4	N/A	Joules/g
94000012	C-103	2 SAMPLE	S95T000566	0		DSC-01	SOLID	N/A	364.3		Joules/g
94000012	C-103	3 DUP	S95T000566	0		DSC-01	SOLID	364.3	402.0	N/A	Joules/g

Final page for worklist # 955

Data entered + verified by Blandina Valenzuela 4/4/95
for SM Fulton

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments: Sample S95T000566 was a rerun of S95T000046
Standard and samples were run on the same day/same shift
& DSC has the wrong date

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

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 206 TO 208.

4/4/95 BDV

DSC STD 12N14-A

6.525 mg

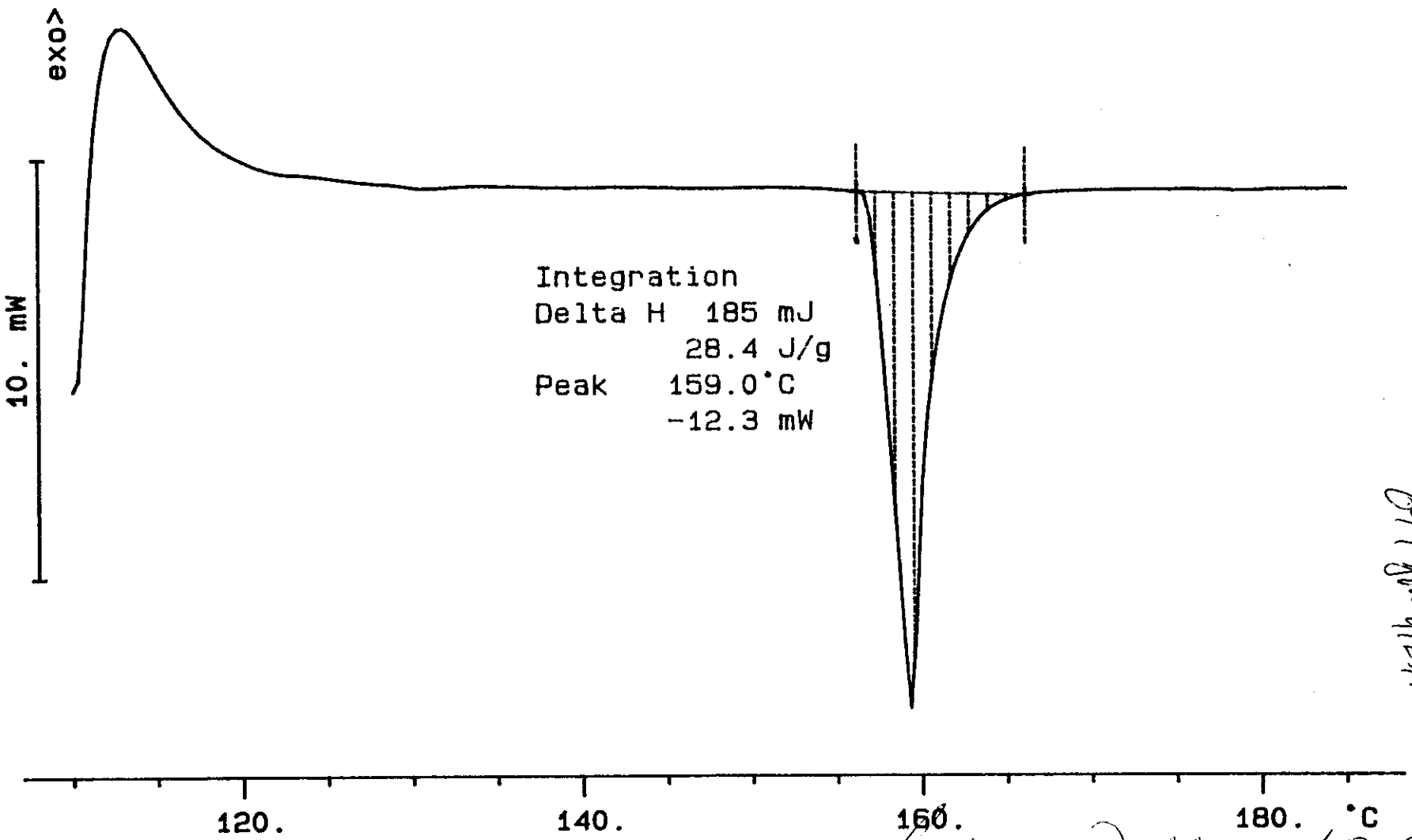
Rate: 10.0 °C/min

File: 00040.001

Ident: 0.0

DSC METTLER ~~03~~ 04-Apr-95

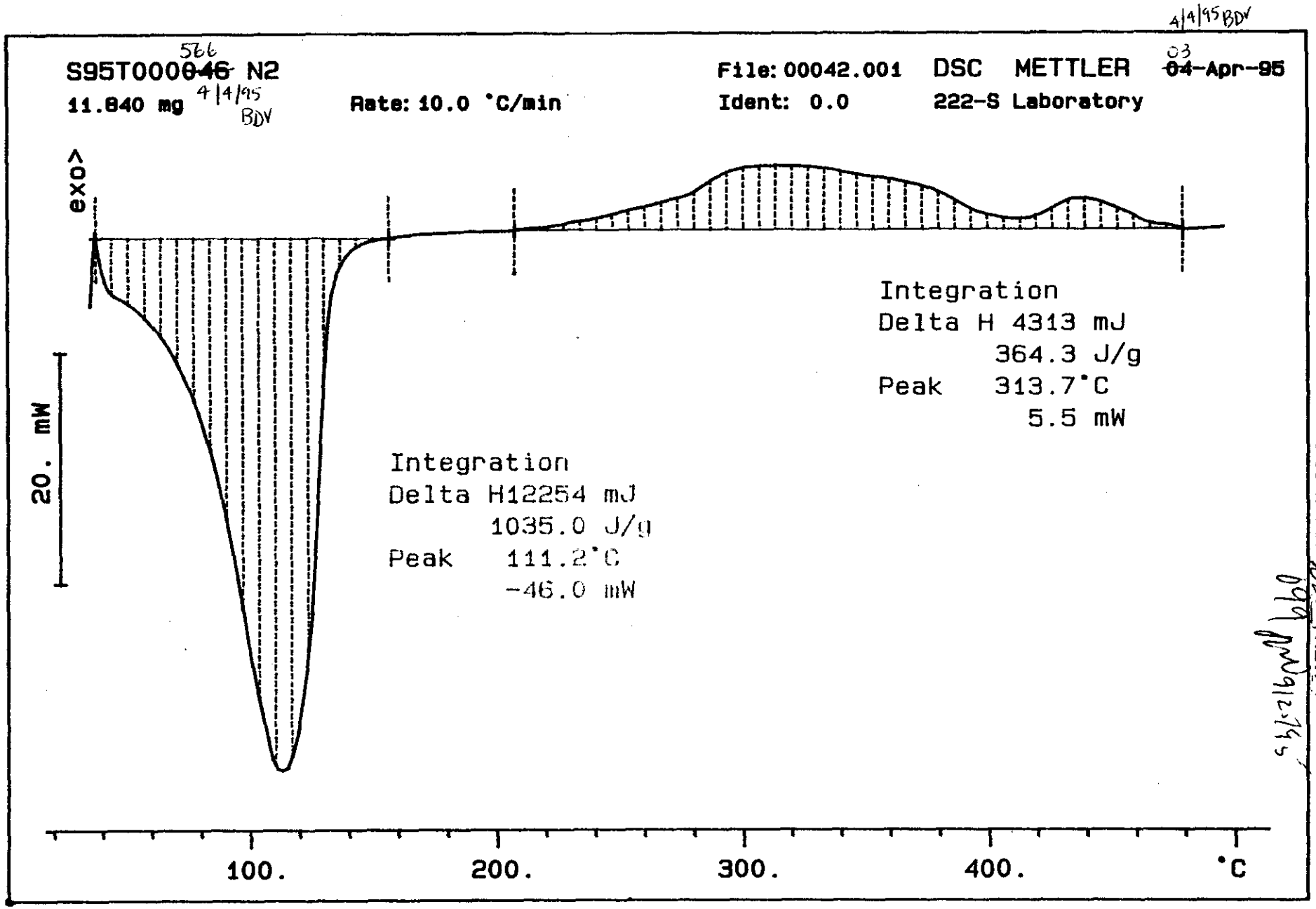
222-S Laboratory



WHC-SD-WM-DP-[illegible] REV. 1

[illegible] 9/25/95

Susie M. Sutton 4-3-95



WHC-SD-WM-DP-~~080~~ 099, REV. 1
DN 9/2/95

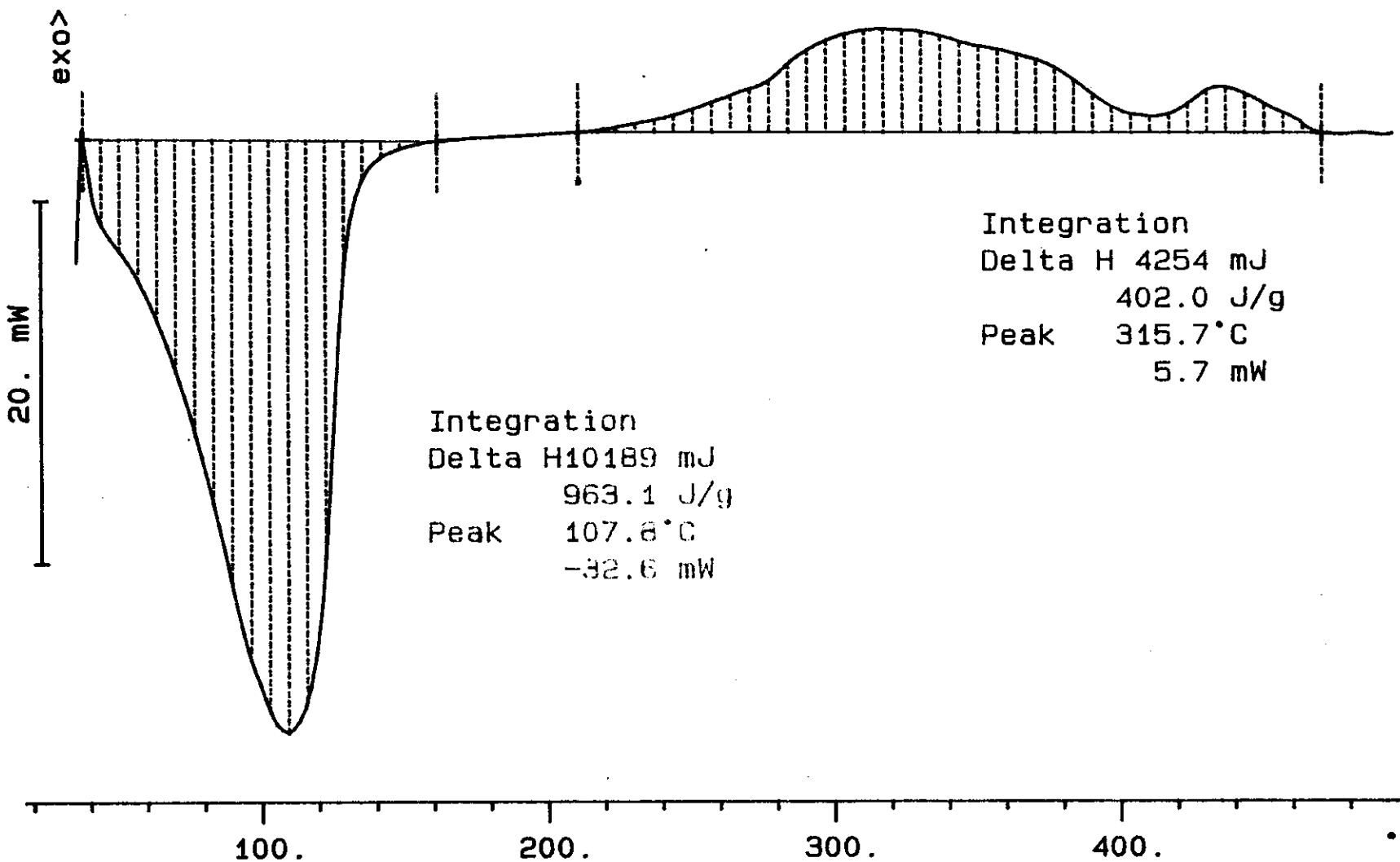
S95T000~~046~~ 566 (DUP) N2

10.580 mg 4/4/95 BDV

Rate: 10.0 °C/min

File: 00044.001 DSC METTLER ~~04~~ 03 -Apr-95 4/4/95 BDV

Ident: 0.0 222-S Laboratory



WHC-SD-WM-DP- 880, REV. 1

099 9/25/95

LABCORE Data Entry Template for Worklist# 968

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated C-103 dry DSC. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
94000012	C-103	1 SAMPLE	S95T000566	0		DSC-02	SOLID	N/A	562		Joules/g Dry
94000012	C-103	2 DUP	S95T000566	0		DSC-02	SOLID	562	621	N/A	Joules/g Dry

Final page for worklist # 968

Data entered and verified
Blanca Valenzuela 4/4/95

Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments: Sample S95T000566 was a rerun of S95T000046

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# 956

Analyst: SMF **Instrument:** TGA01 **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run C-103 TGA under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.19	58.89	N/A	%
94000012	C-103	2	SAMPLE	S95T000566	0		TGA-01	SOLID	N/A	43.23		%
94000012	C-103	3	DUP	S95T000566	0		TGA-01	SOLID	43.23	27.20	N/A	%

Avg: 35.22

Final page for worklist # 956

Data entered + verified by

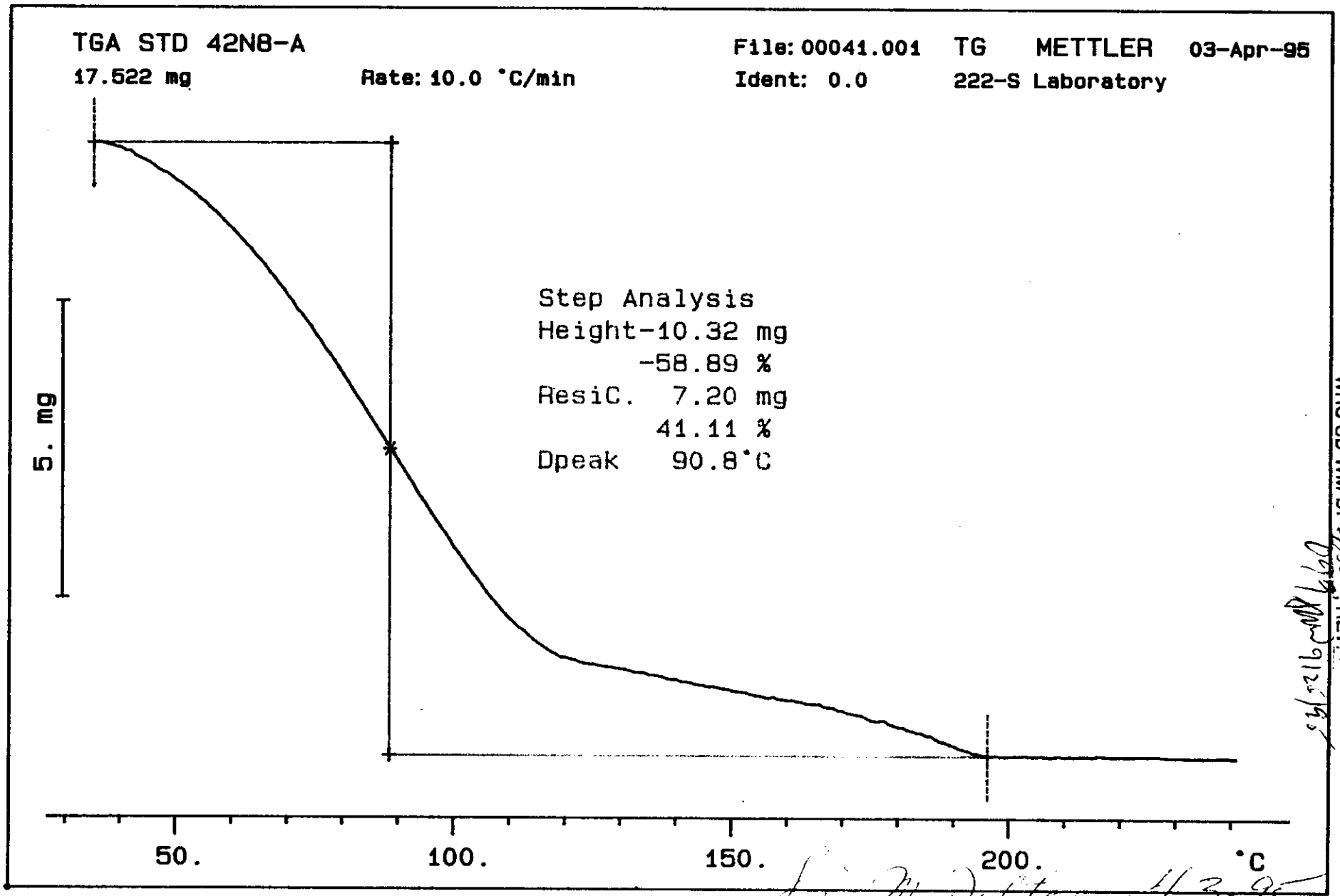
Blandina Valenzuela 4/4/95
Analyst Signature **Date**
for SM Fulton

Analyst Signature **Date**

Data Entry Comments: Sample S95T000566 was a rerun of sample S95T000046

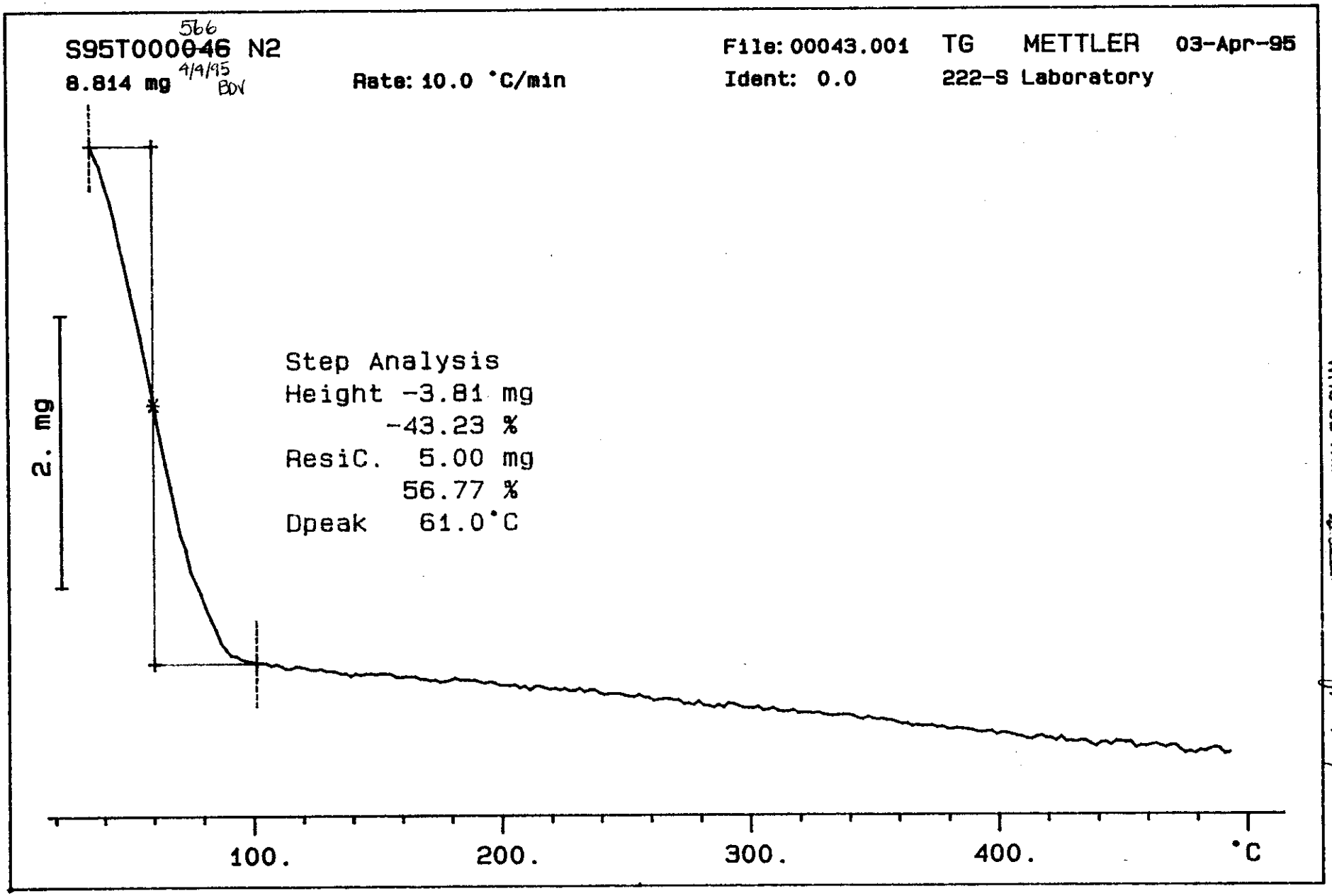
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 211 TO 213.

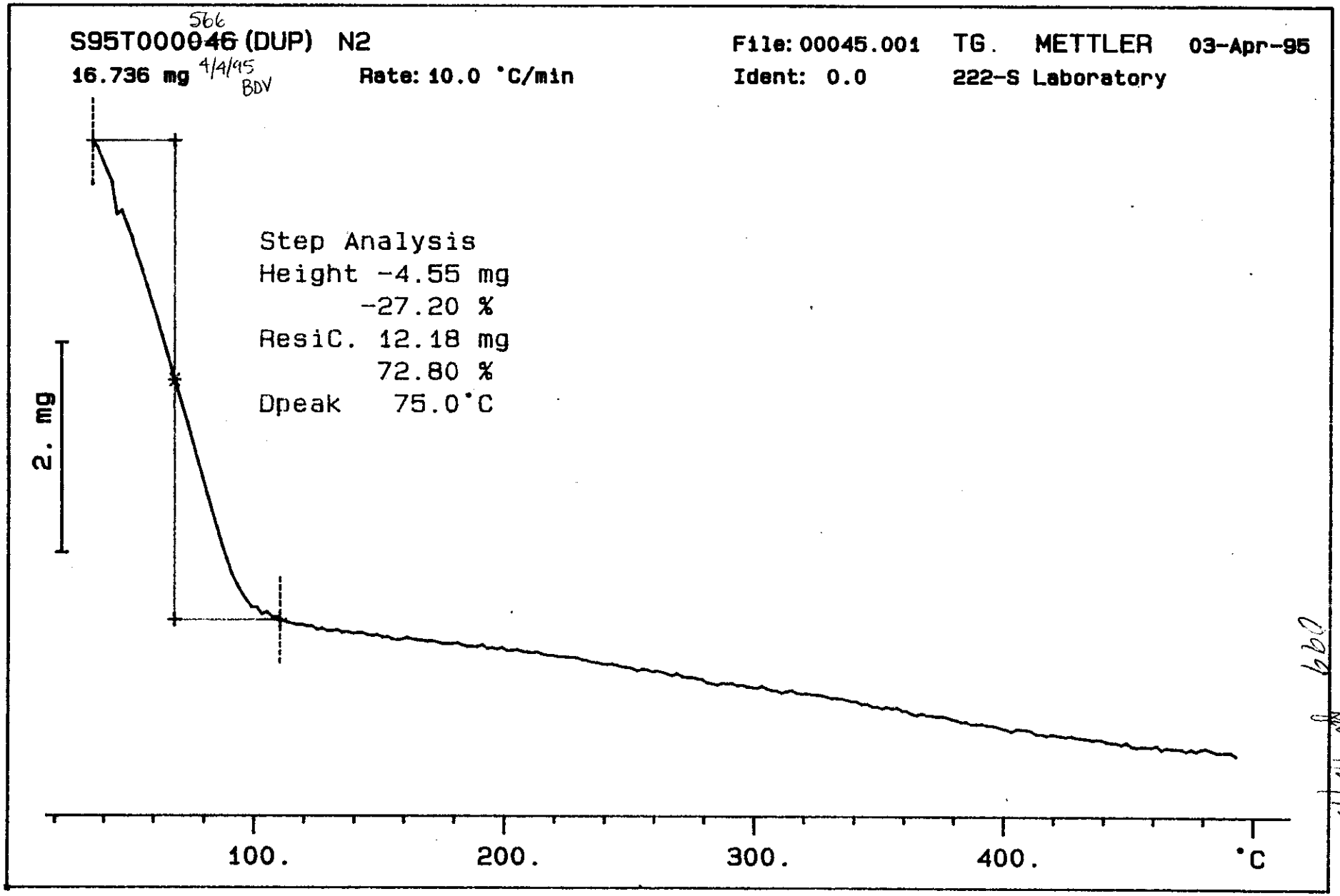


Sara M. Dalton 4-3-95

WHC-SD-WM-DP-185, REV. 1



WHC-SD-WM-DP-~~230~~ 229, REV 1 9/12/95



WHC-SD-WM-DP-
REV.
9/12/95

LABCORE Data Entry Template for Worklist# 1343

Analyst: RMcCown **Instrument:** BA001 _____ **Book #** 4208-A

Method: LA-564-101 Rev/Mod F-1

Worklist Comment: C-103 %Water Rerun. Prior to analyzing, thoroughly mix the sample with a spatula to maximize sample homogeneity.

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				WATER-01	SOLID	1	~~19.7~~ 0.00 RWS 5-8-95	N/A	%
		2	STD				WATER-01	SOLID	59.19	57.1	N/A	%
94000012	C-103	3	SAMPLE	S95T000887	0		WATER-01	SOLID	N/A	25.3	0.01	%
94000012	C-103	4	DUP	S95T000887	0		WATER-01	SOLID	25.3	25.0	N/A	%

Final page for worklist # 1343

RMcCown 5/7/95
Analyst Signature Date

[illegible] 5/7/95
Analyst Signature Date

Reviewed RW Schroeder 5-8-95

Data Entry Comments:

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

PERCENT WATER ANALYSIS

AHMcCown

24 W1 887 A 14652.29 mg

25 W1 887 B 14723.28 mg

26 0.00 mg

27 W1 887 DUP A 14726.69 mg

28 W1 887 DUP B 14572.67 mg

29 0.00 mg

30 W2 887 A 15221.37 mg

31 W2 887 B 15141.70 mg

32 0.00 mg

33 W2 887 DUP A 15155.68 mg

34 W2 887 DUP B 14801.93 mg

AHMcCown

35 0.00 mg

36 W3 BLK A 14567.32 mg

37 0.00 mg

38 W3 BLK B 14757.33 mg

39 0.06 mg

40 0.00 mg

41 W3 STD A 15234.44 mg

42 0.00 mg

43 W3 STD B 15391.34 mg

44 -0.01 mg

45 W3 887 A 15077.07 mg

46 W3 887 B 15036.40 mg

47 0.00 mg

48 W3 887 DUP B 14745.64 mg

49 0.03 mg

50 W3 887 DUP ~~B~~ A AHM 5/7/95

RHMcCown

51		0.00 mg	
52	W4 BLK A	14567.42 mg	
53		0.00 mg	
54	W4 BLK B	14756.95 mg	
55		0.00 mg	
56	W4 STD A	15231.45 mg	
57		-0.02 mg	
58	W4 STD B	15386.92 mg	
59		0.00 mg	
60	W4 887 A	15077.13 mg	
61		0.00 mg	
62	W4 887 B	15036.35 mg	
63		0.00 mg	
64	W4 887 DUP A	15046.24 mg	
65		0.00 mg	
66	W4 887 DUP B	14745.58 mg	
67		0.00 mg	

RHMcCown

13		0.00 mg	
14	W1 BLK A	14565.31 mg	
15	W1 BLK B	14755.31 mg	
16	W1 STD A	14650.19 mg	
17	W1 STD B	14786.26 mg	
18	W2 BLK A	14567.90 mg	
19	W2 BLK B	14757.38 mg	
20	W2 STD A	16020.30 mg	
21	W2 STD B	16173.94 mg	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-~~080~~ 099, REV. 1 MW 4/25/95

% WATER : LA-564-101 (F-0)

		BLANK	REPLICATE
	Tare Weight (W1)	0.0000	0.0000
BLANK	Gross Weight (W2)	14.5679	14.7574
	First Residue Weight (W3)	14.5673	14.7573
1343	Second Residue Weight (W4)	14.5674	14.7570
	Percent Difference	0.0007	N/A
	QC Check	Pass	N/A
	Percent Weight Loss	0.00	0.00

SOLID

BLANK

(If it is necessary to do a 3rd heating then substitute the last weight measured for W4 and the second to last weight measured for W3 in the calculations above.)

PJ McCOWAN

05/07/95

01:30 PM

Sample = W2 - W1	= Gross Weight - Tare Weight
Weight = W2 - W4	= Gross Weight - Residue Weight
Percent Difference	= Absolute Value of [(W3-W4)/W4]*100.0
QC Check "Pass" if % Differenc	= < +/- 0.1500%
Percent Water Weight Loss	= [(W2-W4)/(W2-W1)]*100 = % H2O
Percent Water (Average)	= [(% H2O for A) + (% H2O for B)] / 2

RESULT

% H2O =	0.0

Data Entry by:	RW Schroeder	Date:	05/08/95
Approved by:	[illegible]	Date:	5/8/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-~~088~~ 099 REV. 1 JW 9/20/95

% WATER : LA-564-101 (F-0)

		STANDARD	REPLICATE
Type	Tare Weight (W1)	14650.1900	14786.2600
STANDARD	Gross Weight (W2)	16020.3000	16173.9400
Work List	First Residue Weight (W3)	15234.4400	15391.3400
1343	Second Residue Weight (W4)	15231.4500	15386.9200
Test Code	Percent Difference	0.0196	0.0287
WATER-01	QC Check	Pass	Pass
	Percent Weight Loss	57.58	56.71
SOLID			
STD			
Instrument Code			
BA001			
PJ MCCOWN			
05/07/95			
Date Analyzed			

(If it is necessary to do a 3rd heating then substitute the last weight measured for W4 and the second to last weight measured for W3 in the calculations above.)

Sample = W2 - W1	= Gross Weight - Tare Weight
Weight = W2 - W4	= Gross Weight - Residue Weight
Percent Difference	= Absolute Value of [(W3-W4)/W4]*100.0
QC Check "Pass" if % Differenc	= < +/- 0.1500%
Percent Water Weight Loss	= [(W2-W4)/(W2-W1)]*100 = % H2O
Percent Water (Average)	= [(% H2O for A) + (% H2O for B)] / 2

RESULT

% H2O (Average) = 57.1

Data Entry by:	Gary Hewitt	Date:	05/07/95
Approved by:	RW Schroeder	Date:	5-8-95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-~~080~~ 099, REV. 1

% WATER : LA-564-101 (F-0)

		SAMPLE	REPLICATE
	Tare Weight (W1)	14652.2900	14723.2800
SAMPLE	Gross Weight (W2)	15221.3700	15141.7000
	First Residue Weight (W3)	15077.0700	15036.4000
1343	Second Residue Weight (W4)	15077.1300	15036.3500
	Percent Difference	0.0004	0.0003
WATER-01	QC Check	Pass	Pass
	Percent Weight Loss	25.35	25.18

SOLID

S95T000887

BA001

PJ MCCOWN

05/07/95

(If it is necessary to do a 3rd heating then substitute the last weight measured for W4 and the second to last weight measured for W3 in the calculations above.)

Sample = W2 - W1	= Gross Weight - Tare Weight
Weight = W2 - W4	= Gross Weight - Residue Weight
Percent Difference	= Absolute Value of [(W3-W4)/W4]*100.0
QC Check "Pass" if % Differenc	= < +/- 0.1500%
Percent Water Weight Loss	= [(W2-W4)/(W2-W1)]*100 = % H2O
Percent Water (Average)	= [(% H2O for A) + (% H2O for B)] / 2

RESULT

% H2O (Average) = 25.3

Data Entry by:	[signature]	Date:	05/07/95
Approved by:	Bill Schroeder	Date:	5/8/95

Form 564101L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-~~000~~ 099 JW 9/25/97, REV. 1

% WATER : LA-564-101 (F-0)

		SAMPLE	REPLICATE
	Tare Weight (W1)	14726.6900	14572.6700
DUPLICATE	Gross Weight (W2)	15155.6800	14801.9300
	First Residue Weight (W3)	15046.4900	14745.6400
1343	Second Residue Weight (W4)	15046.2400	14745.5800
	Percent Difference	0.0017	0.0004
WATER-01	QC Check	Pass	Pass
	Percent Weight Loss	25.51	24.58

SOLID

S95T000887

BA001

PJ MCCOWN

05/07/95

(If it is necessary to do a 3rd heating then substitute the last weight measured for W4 and the second to last weight measured for W3 in the calculations above.)

Sample = W2 - W1	= Gross Weight - Tare Weight
Weight = W2 - W4	= Gross Weight - Residue Weight
Percent Difference	= Absolute Value of [(W3-W4)/W4]*100.0
QC Check "Pass" if % Differenc	= < +/- 0.1500%
Percent Water Weight Loss	= [(W2-W4)/(W2-W1)]*100 = % H2O
Percent Water (Average)	= [(% H2O for A) + (% H2O for B)] / 2

RESULT

% H2O (Average) = 25.0

Data Entry by:	[signature]	Date:	05/07/95
Approved by:	RW Schroeder	Date:	5/8/95

Form 564101L1 Rev. 1.1

%WATER / %SOLIDS: LA-564-101 ~~(E-3)~~ F-1

PLA 3 IN OVEN 1330 5/6/95 RLM

WORKLIST #	ANALYST SIGNATURE	ANALYS. DATE	ANALYSIS TIME	INSTRUM. CODE
1343	RJ McCown	5/7/95	1330	

☐ SAMPLE ☐ STANDARD ☒ DUPLICATE ☐ PREP BLANK ☒ REAGENT BLANK

SAMPLE # = BLK A STD # =

		REPLICATE
GROSS WEIGHT (g)	14.56790	
TARE WEIGHT (g)	14.56531	
FIRST RESIDUE WEIGHT (g)	14.56732	
SECOND RESIDUE WEIGHT (g)	14.56742	

☒ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ PREP BLANK ☐ REAGENT BLANK

SAMPLE # = 595T000887 A STD # =

		REPLICATE
GROSS WEIGHT (g)	15.22137	
TARE WEIGHT (g)	14.65229	
FIRST RESIDUE WEIGHT (g)	15.07707	
SECOND RESIDUE WEIGHT (g)	15.07713	

☐ SAMPLE ☐ STANDARD ☒ DUPLICATE ☒ PREP BLANK ☒ REAGENT BLANK

SAMPLE # = BLK B STD # =

		REPLICATE
GROSS WEIGHT (g)	14.75738	
TARE WEIGHT (g)	14.75531	
FIRST RESIDUE WEIGHT (g)	14.75733	
SECOND RESIDUE WEIGHT (g)	14.75695	

☒ SAMPLE ☐ STANDARD ☐ DUPLICATE ☐ PREP BLANK ☐ REAGENT BLANK

SAMPLE # = 595T000887 B STD # =

		REPLICATE
GROSS WEIGHT (g)	15.14170	
TARE WEIGHT (g)	14.72328	
FIRST RESIDUE WEIGHT (g)	15.03640	
SECOND RESIDUE WEIGHT (g)	15.03635	

221

☐ SAMPLE ☒ STANDARD A ☐ DUPLICATE ☐ PREP BLANK ☐ REAGENT BLANK

SAMPLE # = STD # = 4208-A

		REPLICATE
GROSS WEIGHT (g)	16.02030	
TARE WEIGHT (g)	14.65019	
FIRST RESIDUE WEIGHT (g)	15.23444	
SECOND RESIDUE WEIGHT (g)	15.23145	

☒ SAMPLE ☐ STANDARD ☒ DUPLICATE ☐ PREP BLANK ☐ REAGENT BLANK

SAMPLE # = 595T000887 DUP A STD # =

		REPLICATE
GROSS WEIGHT (g)	15.15568	
TARE WEIGHT (g)	14.72669	
FIRST RESIDUE WEIGHT (g)	~~14.74564~~	15.04649
SECOND RESIDUE WEIGHT (g)	15.04624	

RLM 5/7/95

☐ SAMPLE ☒ STANDARD B ☐ DUPLICATE ☐ PREP BLANK ☐ REAGENT BLANK

SAMPLE # = STD # = 4208-A

		REPLICATE
GROSS WEIGHT (g)	16.17394	
TARE WEIGHT (g)	14.78626	
FIRST RESIDUE WEIGHT (g)	15.39134	
SECOND RESIDUE WEIGHT (g)	15.38692	

☐ SAMPLE ☐ STANDARD ☒ DUPLICATE ☐ PREP BLANK ☐ REAGENT BLANK

SAMPLE # = 595T000887 DUP B STD # =

		REPLICATE
GROSS WEIGHT (g)	14.80193	
TARE WEIGHT (g)	14.57267	
FIRST RESIDUE WEIGHT (g)	14.74564	
SECOND RESIDUE WEIGHT (g)	14.74558	

WHC-SD-WM-DP-~~200~~ 699, REV. 1 9/26/95

LABCORE Data Entry Template for Worklist# 302

Analyst: MCJ **Instrument:** PH01 AL11210 **Book #** 21N8-B

Method: LA-211-102 Rev/Mod B-1

Worklist Comment: OH BY-106 re-digest

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				OH-01	SOLID	1	<42	N/A	ug/g
		2	BLNK-PREP				OH-01	SOLID	1	<125	N/A	ug/g
		3	STD				OH-01	SOLID	9.39e-1	9.17e-1	N/A	~~ug/g~~ M RWS/5-9-95
95000013	C-103	4	SAMPLE	S95T000528	0	W	OH-01	SOLID	N/A	<8.57e+3	8.57e+3	ug/g
95000013	C-103	5	DUP	S95T000528	0	W	OH-01	SOLID	<8.57e+3	<8.72e+3	N/A	ug/g
95000013	C-103	6	SPK	S95T000528	0	W	OH-01	SOLID	100	77.3	N/A	~~ug/g~~ % RWS 5-9-95
95000013	C-103	7	SAMPLE	S95T000529	0	W	OH-01	SOLID	N/A	<7.76e+3	7.76e+3	ug/g
95000013	C-103	8	DUP	S95T000529	0	W	OH-01	SOLID	<7.76e+3	<7.55e+3	N/A	ug/g
94000012	C-103	9	SAMPLE	S95T000871	0	W	OH-01	SOLID	N/A	<6.59e+3	6.59e+3	ug/g
94000012	C-103	10	DUP	S95T000871	0	W	OH-01	SOLID	<6.59e+3	<6.37e+3	N/A	ug/g
94000012	C-103	11	SAMPLE	S95T000872	0	W	OH-01	SOLID	N/A	<4.90e+3	4.90e+3	ug/g
94000012	C-103	12	DUP	S95T000872	0	W	OH-01	SOLID	<4.90e+3	<4.67e+3	N/A	ug/g
		13	STD				OH-01	SOLID	9.39e-1	9.13e-1	N/A	ug/g

Final page for worklist # 302

Nick Jones 5-8-95
Analyst Signature **Date** RWS 5-9-95

Analyst Signature **Date**

RW Schroeder ~~5-8~~ 5-9-95

RWS 5/9/95

Data Entry Comments:

all Samples except the STD and BLK's where ran without H_2O. The Titrant was .1994M HNO_3. 1ml $BaCl_2$ used for all Samples.

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.

OH (AUTO): LA-211-102 (B-1)

WORKLIST #	ANALYST SIGNATURE	ANALYSIS DATE	ANALYSIS TIME	INSTRUMENT CODE
302	Mike Jones	5-8-95	2330	AL 11210

[ ] SAMPLE [X] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = STD 21N8-B MATRIX =

SAMPLE SIZE (mL) .050
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [X] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000528 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [X] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = Rgt Blank MATRIX = ~~H_2O Digest~~ 5mL 5-8-95

SAMPLE SIZE (mL)
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1 ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [X] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000528 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml + .025ml Spike = 21N8-B
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [X] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = MATRIX = H_2O Digest

SAMPLE SIZE (mL) 1ml
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1 ml
* ATTACH PRINT REPORT #2 & #5

[X] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000529 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[X] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000528 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [X] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000529 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary)
VOL. DILUTED SAMPLE ANALYZED

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

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WHC-SD-WM-DP-[illegible], REV. 1

OH (AUTO): LA-211-102 (B-1)

WORKLIST #	ANALYST SIGNATURE	ANALYSIS DATE	ANALYSIS TIME	INSTRUMENT CODE
302	Mikl Jorst	5-8-95	2330	AL 11210

[X] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000871 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [X] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 21N8 B MATRIX =

SAMPLE SIZE (mL) .050 ml
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [X] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000871 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = MATRIX =

SAMPLE SIZE (mL) ____
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED
* ATTACH PRINT REPORT #2 & #5

224

[X] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000872 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = MATRIX =

SAMPLE SIZE (mL) ____
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [X] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = 595T000872 MATRIX = H_2O Digest

SAMPLE SIZE (mL) 5ml
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED 1ml
* ATTACH PRINT REPORT #2 & #5

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE [ ] PREP BLANK [ ] SPIKE [ ] REAGENT BLANK

SAMPLE/STD # = MATRIX =

SAMPLE SIZE (mL) ____
VOL. H2O ADDED for DILUTION (if necessary) ____
VOL. DILUTED SAMPLE ANALYZED ____

* BaCl2 VOLUME ADDED
* ATTACH PRINT REPORT #2 & #5

WHC-SD-WM-DP- REV.

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calibration data
date 95-04-13
pH(S) 1 7.00
pH(S) 2 10.00
t.cal. 25.0 °C
slope(rel) .997
U(as) -16.0 mV
electr. input 1
========

pH
pH w/ BaCl2 1.75

Id.#1 214
Id.#1 ----

Id.#1 113
pH 10.24
pH 8.85
Id.#1 ----
Id.#1 220

pH 10.23
pH 8.83
Id.#1 ----

Id.#1 221
pH 10.20
pH 8.86

Id.#1 ----
Id.#1 330
pH 10.22
pH 8.33

Id.#1 ----
Id.#1 49
pH 10.73
pH 8.81

Id.#1 ----
Id.#1 52
pH 10.48
pH 8.79

pH 7.45
pH 7.43
pH 7.48

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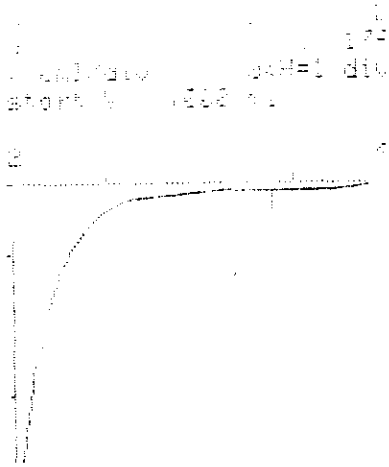
PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP-~~230~~ 079, REV. 1

BLK



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OH (AUTO) : LA-211-102 (B-1)

		Blank
Type	Sample Size (mL) SS	3.000
Blank	Concentration of HNO3 (Molarity)	0.1994
Work List	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Liquid		
Sample #	Detection Limit = 125µg / SS * DF	
Blank		
Instrument Code	Detection Limit (µg/mL)	4.17E+01
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Blank
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<42

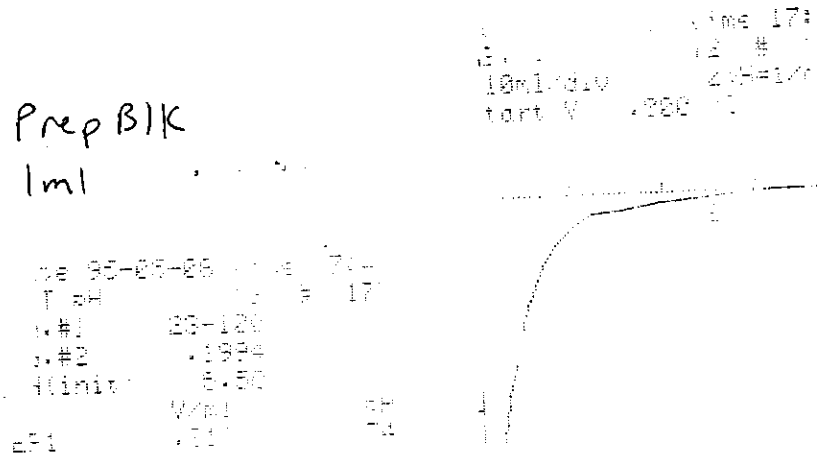
The Result is < Detection Limit

Data Entry by:	R.W. Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP- 088, REV. 1

Prep BlK
1ml



BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (B-1)

		Blank
Type	Sample Size (mL) SS	1.000
Blank	Concentration of HNO3 (Molarity)	0.1994
WorkList	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Liquid		
Sample #	Detection Limit = 125µg / SS * DF	
Prep. Blank		
Instrument Code	Detection Limit (µg/mL)	1.25E+02
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Blank
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<125

The Result is < Detection Limit

Data Entry by:	RW Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	3/9/95

Form 211102_1 Rev. 1.3

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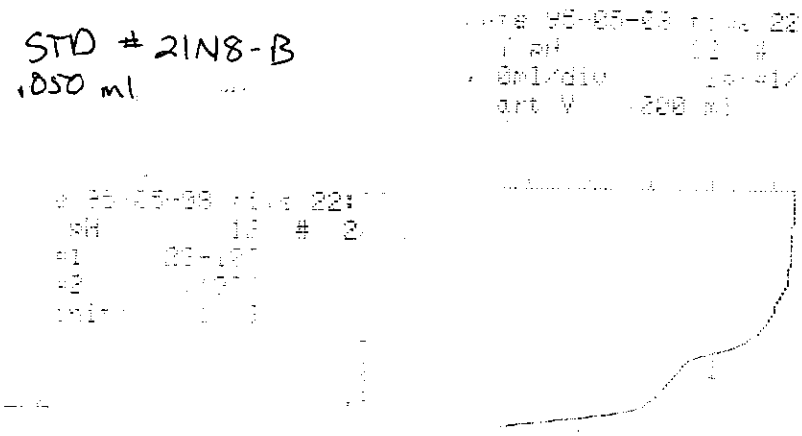
PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP- 299 REV. 1

9/25/95

STD # 21N8-B
.050 ml



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OH (AUTO) : LA-211-102 (B-1)

		Standard
Type	Sample Size (mL) SS	0.050
Standard	Concentration of HNO3 (Molarity)	0.1994
Work List	HNO3 Titrant at OH end-point in mL	0.230
302	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	9.17E-01
	OH in Sample in µg/mL (PPM)	1.56E+04
Matrix		
Liquid		
Sample #		
Standard		
Instrument Code		
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Standard
08:00 PM	Concentration of OH in Sample (Molarity)	9.17E-01
	OH in Sample in µg/mL (PPM)	1.56E+04

Data Entry by:	Kim Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP- 029 REV. 1

9/27/95

S95T000528 Smp
Sml Direct...

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (B-1)

		Sample
Type	Sample Size (mL) SS	5.000
Sample	Concentration of HNO3 (Molarity)	0.1994
WorkList	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	342.7
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample#	Detection Limit = 125µg / SS * DF	
S95T000528		
Instrument Code	Detection Limit (µg/mL)	8.57E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Sample
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<8568

The Result is < Detection Limit

Data Entry by:	RW Schroeder	Date:	05/09/95
Approved by:		Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP-~~084~~ 099, REV. 1

S95T000528 Dup
5ml Direct

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OH (AUTO) : LA-211-102 (B-1)

		Duplicate
Type	Sample Size (mL) SS	5.000
Duplicate	Concentration of HNO3 (Molarity)	0.1994
Work List	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	349
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample#	Detection Limit = 125µg / SS * DF	
S95T000528		
Instrument Code	Detection Limit (µg/mL)	8.73E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Duplicate
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<8725

The Result is < Detection Limit

Data Entry by:	R W Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP-~~099~~, REV. 1

099 [illegible] 9/25/95

S95T000528 spk
5ml Direct
+ .025ml Spike# 21N8-B

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OH (AUTO) : LA-211-102 (B-1)

			SPIKE
Type	Volume of Sample in Sample+Spike Aliquot in mL	(VSS)	5
SPIKE	Volume of Sample in mL from Form 1	(VS)	5
Worklist	Volume of Spike in mL	(S)	0.025
302	Sample+Spike Titrant Volume in mL	(VSST)	0.091
Test Code	Sample Titrant Volume in mL from Form 1	(VST)	0
	Concentration of HNO3 (titrant) in Molarity	(MNO)	0.1994
Matrix	Book # of Spike Standard Used		21N8B
Liquid	Concentration of Spike Standard (Molarity) True Value	(MSS)	0.939
Sample	Analyzed Concentration of Spike (Molarity)	(MOH)	7.26E-01
S95T000528	% Spike Recovery		7.73E+01
Instrument Code			
AL11210			
Analyst			
Mike Jones	MOH = ((VSST - VST) * MNO) / S		
Date			
05/08/95	% Spike Recovery = MOH / MSS * 100		
Time			
08:00 PM			

Analyzed Concentration of Spike (Molarity)	7.26E-01
% Spike Recovery	7.73E+01

Data Entry by:	RW Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_X Rev. 2.2 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP-~~088~~ 089, REV 1 JMW 9/25/95

S95T000529 Smp
5ml Direct

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (B-1)

		Sample
Type	Sample Size (mL) SS	5.000
Sample	Concentration of HNO3 (Molarity)	0.1994
Work List	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	310.6
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample #	Detection Limit = 125µg / SS * DF	
S95T000528 9 RWS 5-9-95		
Instrument Code	Detection Limit (µg/mL)	7.77E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Sample
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<7765

The Result is < Detection Limit

Data Entry by:	RW Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

S95T000529 Dup

5ml Direct

```
te 95-05-08 time 22:15
T pH          12  #  201
.#1       23-100
.#2        .1934
(init)      6.06
op volt.reached
      ========

te 95-05-08 time 22:1
T pH          12  #  20
0ml/div       dpH=1/d
art V    .000 ml
```

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (B-1)

		Duplicate
Type	Sample Size (mL) SS	5.000
Duplicate	Concentration of HNO3 (Molarity)	0.1994
WorkList	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	301.9
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample #	Detection Limit = 125µg / SS * DF	
S95T000528 9 Rule 5-9-95		
Instrument Code	Detection Limit (µg/mL)	7.55E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Duplicate
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<7547

The Result is < Detection Limit

Data Entry by:	BW Schroeder	Date:	05/09/95
Approved by:	GM Mizell	Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-~~880~~ 899, REV. 1

S95T000871.Smp
5ml Direct

```
te 95-05-08 time 21:1
T pH          12  #  19
.#1       20-100
.#2        .1994
(ini)       8.78
          V/ml
1          .000        0.
stop volt.reached
        ========
```

```
te 95-05-08 time 21:
T pH          12  #  1
m1/mlx          =1/c
int V    .000 ml
```

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (B-1)

		Sample
Type	Sample Size (mL) SS	5.000
Sample	Concentration of HNO3 (Molarity)	0.1994
Work List #	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	263.6
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample #	Detection Limit = 125µg / SS * DF	
S95T000871		
Instrument Code	Detection Limit (µg/mL)	6.59E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Sample
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<6590

The Result is < Detection Limit

Data Entry by:	RW Schweder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-080, REV. 1

S95T000871 Dup
5ml Direct

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (B-1)

		Duplicate
Type	Sample Size (mL) SS	5.000
Duplicate	Concentration of HNO3 (Molarity)	0.1994
Work List #	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	254.8
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample #	Detection Limit = 125µg / SS * DF	
S95T000871		
Instrument Code	Detection Limit (µg/mL)	6.37E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Duplicate
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<6370

The Result is < Detection Limit

Data Entry by:	RW Schneider	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP-~~060~~ 088, REV. 1

S95T000872 Smp
5ml Direct

```
date 95-05-08 time 21:26
GET pH          12   #  195
Id.#1       23-130
Id.#2        .1994
pH(init)      8.75
            V/ml          pH
EP1         .053        8.31
stop min.reached
```

```
date 95-05-08 time 21:27
GET pH          12   #  195
.10ml/div        2pH=1/div
start V    .000 ml
```

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OH (AUTO) : LA-211-102 (B-1)

		Sample
Type	Sample Size (mL) SS	5.000
Sample	Concentration of HNO3 (Molarity)	0.1994
Work List	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	196.2
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample #	Detection Limit = 125µg / SS * DF	
S95T000872		
Instrument Code	Detection Limit (µg/mL)	4.91E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Sample
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<4905

The Result is < Detection Limit

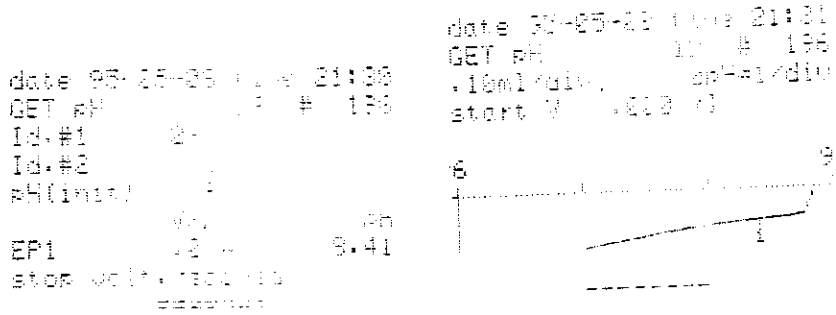
Data Entry by:	KW Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-088, REV. 1

S95T000872 Dup
5ml Direct



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OH (AUTO) : LA-211-102 (B-1)

		Duplicate
Type	Sample Size (mL) SS	5.000
Duplicate	Concentration of HNO3 (Molarity)	0.1994
Work List	HNO3 Titrant at OH end-point in mL	0.000
302	Dilution Factor DF	186.7
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Water Digest		
Sample #	Detection Limit = 125µg / SS * DF	
S95T000872		
Instrument Code	Detection Limit (µg/mL)	4.67E+03
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Duplicate
08:00 PM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<4668

The Result is < Detection Limit

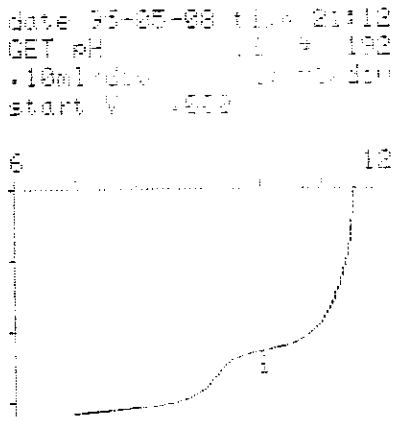
Data Entry by:	R W Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER WHC-SD-WM-DP-~~010~~ 099, REV 1/ 7/13/95

STD # 2.N8-B
SS. .050 ml

date 95-05-08 time 21:11
GET pH 12 # 192
Id.#1 99-100
Id.#2 .1991
pH(init) 11.52
V/ml pH
EP1 .229 10.08
stop mode reached
measure



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OH (AUTO) : LA-211-102 (B-1)

		Standard
Type	Sample Size (mL) SS	0.050
Standard	Concentration of HNO3 (Molarity)	0.1994
Work List	HNO3 Titrant at OH end-point in mL	0.229
302	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	9.13E-01
	OH in Sample in µg/mL (PPM)	1.55E+04
Matrix		
Water Digest		
Sample #		
End Standard		
Instrument Code		
AL11210		
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
Mike Jones		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/09/95		
Time		Standard
08:00 PM	Concentration of OH in Sample (Molarity)	9.13E-01
	OH in Sample in µg/mL (PPM)	1.55E+04

Data Entry by:	RW Schroeder	Date:	05/09/95
Approved by:	[illegible]	Date:	5/9/95

Form 211102_1 Rev. 1.3

LABCORE Data Entry Template for Worklist# 964

Analyst: RAW **Instrument:** PH01 WC06695 **Book #** 21N8-B

Method: LA-211-102 Rev/Mod B-1

WHC-SD-WM-DP-~~066~~, REV. 1
099 9/25/95

Worklist Comment: OH, C-103 Special RWP required

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				OH-01	LIQUID	1	N/A	N/A	ug/mL
		2	STD				OH-01	LIQUID	7.38	7.40	N/A	ug/mL
94000012	C-103	3	SAMPLE	S94T000200	0		OH-01	LIQUID	N/A	N.A.	125	ug/mL
94000012	C-103	4	DUP	S94T000200	0		OH-01	LIQUID	N.A.	N.A.	N/A	ug/mL
94000012	C-103	5	SAMPLE	S95T000049	0		OH-01	LIQUID	N/A	N.A.	125	ug/mL
94000012	C-103	6	DUP	S95T000049	0		OH-01	LIQUID	N.A.	N.A.	N/A	ug/mL
94000012	C-103	7	SAMPLE	S95T000052	0		OH-01	LIQUID	N/A	N.A.	125	ug/mL
94000012	C-103	8	DUP	S95T000052	0		OH-01	LIQUID	N.A.	N.A.	N/A	ug/mL
95000013	C-103	9	SAMPLE	S95T000214	0		OH-01	LIQUID	N/A	N.A	125	ug/mL
95000013	C-103	10	DUP	S95T000214	0		OH-01	LIQUID	N.A.	N.A.	N/A	ug/mL
95000013	C-103	11	SAMPLE	S95T000218	0		OH-01	LIQUID	N/A	N.A.	125	ug/mL
95000013	C-103	12	DUP	S95T000218	0		OH-01	LIQUID	N.A.	N.A.	N/A	ug/mL
95000013	C-103	13	SAMPLE	S95T000220	0		OH-01	LIQUID	N/A	N.A.	125	ug/mL
95000013	C-103	14	DUP	S95T000220	0		OH-01	LIQUID	N.A.	N.A.	N/A	ug/mL
95000013	C-103	15	SAMPLE	S95T000222	0		OH-01	LIQUID	N/A	N.A.		ug/mL
95000013	C-103	16	DUP	S95T000222	0		OH-01	LIQUID	N.A.	N.A.	N/A	ug/mL
		17	STD				OH-01	LIQUID	7.38	7.40	N/A	ug/mL

Robb Wendland 4-13-95
analyst signature Date

Data Entry Comments: 4-18-95 4/18/95

See attached narrative for explaination of results.

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.

Author: Robert W Schroeder at ~WHC169
Date: 4/18/95 9:06 AM
Priority: Normal
Subject: Explaination of Hydroxide analysis for C-103

WHC-SD-WM-DP- 099 REV. 1

---------- Message Contents ----------

This is an explanation of the hydroxide analysis on the C-103 tank drainable liquids at 222-S lab.

The reported results of "N/A" is explained as follows: There is no free hydroxide associated with either of these samples. Each sample had an original pH of approximately 10.3. These samples were treated with the reagent BaCl2 for removal of hydrolyzable anions. The removal of the carbonate and/or phosphate from these samples resulted in a pH of approximately 8.80. Our interpretation of these results is that the observed pH of 8.80 is the carbonate/bicarbonate endpoint. The carbonate and phosphate analyses of these samples are supporting data to our conclusion that there is no free hydroxide. That is the reason for not reporting a "less-than-detection limit" result for these samples.

The pH observations are as follows:

Sample #	Initial pH	pH after BaCl2 addition
S94T000200	10.22	8.80
S95T000049	10.38	8.82
S95T000052	10.48	8.79
S95T000214	10.21	8.75
S95T000218	10.24	8.85
S95T000220	10.25	8.85
S95T000222	10.30	8.89

Let us know if there are further questions or explanations required.

Rob Schroeder and Jon Ball
Chemists 222-S

date [illegible] time 10:38
GET pH 12 # 147
Id.#1 0
Id.#2 .1994
pH(initial) 5.91
stop [illegible]

calibration [illegible]
date [illegible]
pH(S) 1 [illegible]
pH(S) 2 [illegible]
t.coef. [illegible]
slope(%) [illegible]
U(mv) [illegible]
electr. [illegible]

date [illegible]
GET pH [illegible]
.10ml/div [illegible]
start [illegible]

5 [illegible]

date [illegible]
GET pH [illegible]
Id.#1 [illegible]
Id.#2 [illegible]
pH(initial) [illegible]

date [illegible] time [illegible]
GET pH 12 # 146
.10ml/div [illegible]
start [illegible]

date [illegible] time [illegible]
GET pH 12 # 148
Id.#1 [illegible] BLK
Id.#2 .1994
pH(initial) 5.67
stop [illegible]
3 ml

5 [illegible]

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LABCORE Data Entry Template for Worklist# 1258

Analyst: raw **Instrument:** TOC01 _____ **Book #** _____

Method: LA-211-102 Rev/Mod B1 WHC-SD-WM-DP-~~080~~ 099 REV. 6

Worklist Comment: OH from water digests. Lab leader correct for dilution.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			OH-01	SOLID	1	<42	N/A	~~ug/g~~ mg/mL
		2 STD			OH-01	SOLID	9.39e-1	9.49 E-1	N/A	~~ug/g~~ M
94000012	C-103	3 SAMPLE	S95T000525	0 W	OH-01	SOLID	N/A	<2.77e4	2.77e4	ug/g
94000012	C-103	4 SAMPLE	S95T000526	0 W	OH-01	SOLID	N/A	<1.70e4	1.70e4	ug/g
94000012	C-103	5 DUP	S95T000526	0 W	OH-01	SOLID	<1.70e4	<3.78e5	N/A	ug/g
94000012	C-103	6 SAMPLE	S95T000527	0 W	OH-01	SOLID	N/A	<1.51e4	1.51e4	ug/g

Final page for worklist # 1258

R. Wendland 4-28-95
Analyst Signature **Date**

Analyst Signature **Date**

5/3/95

Data Entry Comments: Due to digestion dilution factor and possible buffering, Samples are all reported less than detectable. RW Schroeder
There is no free hydroxide observed. Due to the low initial pH's, titration data is not available.

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

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-~~082~~ 099, REV. 1 9/25/95

OH (AUTO) : LA-211-102 (B-1)

		BLK
	Sample Size (mL) SS	3.000
BLK	Concentration of HNO3 (Molarity)	0.1994
	HNO3 Titrant at OH end-point in mL	0.000
1258	Dilution Factor DF	1
	Concentration of OH in Sample (Molarity)	0.00E+00
OH	OH in Sample in µg/mL (PPM)	0.00E+00
SOLID		
	Detection Limit = 125µg / SS * DF	
BLANK		
	Detection Limit (µg/mL)	4.17E+01
	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA WENDLAND		
	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/28/95		
		BLK
09:00 AM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<42

The Result is < Detection Limit

Data Entry by:	Ken Schroeder	Date:	05/02/95
Approved by:	[illegible]	Date:	5/3/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP- ~~080~~ 099 REV. 1 9/2/95

OH (AUTO) : LA-211-102 (B-1)

		STD
	Sample Size (mL) SS	0.050
STD	Concentration of HNO3 (Molarity)	0.1994
	HNO3 Titrant at OH end-point in mL	0.238
1258	Dilution Factor DF	1
	Concentration of OH in Sample (Molarity)	9.49E-01
OH	OH in Sample in µg/mL (PPM)	1.61E+04
SOLID		
	Detection Limit = 125µg / SS * DF	
STANDARD		
	Detection Limit (µg/mL)	2.50E+03
	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA WENDLAND		
	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/28/95		
		STD
09:00 AM	Concentration of OH in Sample (Molarity)	9.49E-01
	OH in Sample in µg/mL (PPM)	1.61E+04

Data Entry by:	RW Schroeder	Date:	05/02/95
Approved by:	Tom Ball	Date:	5/3/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-~~280~~ 099, REV. 1

OH (AUTO) : LA-211-102 (B-1)

		SAMPLE
Type	Sample Size (mL) SS	3.000
SAMPLE	Concentration of HNO3 (Molarity)	0.1994
Work Order	HNO3 Titrant at OH end-point in mL	0.000
1258	Dilution Factor DF	665
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
OH	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
SOLID		
Sample Number	Detection Limit = 125µg / SS * DF	
S95T000525		
Instrument Code	Detection Limit (µg/mL)	2.77E+04
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA WENDLAND		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/28/95		
Time		SAMPLE
09:00 AM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<27708

The Result is < Detection Limit

Data Entry by:	Ron Schroeder	Date:	05/02/95
Approved by:	[illegible]	Date:	5/3/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-099, REV. 1

OH (AUTO) : LA-211-102 (B-1)

		SAMPLE
Type	Sample Size (mL) SS	3.000
SAMPLE	Concentration of HNO3 (Molarity)	0.1994
Work Request	HNO3 Titrant at OH end-point in mL	0.000
1258	Dilution Factor DF	409
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
OH	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
SOLID		
Sample #	Detection Limit = 125µg / SS * DF	
S95T000526		
Detection Limit	Detection Limit (µg/mL)	1.70E+04
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA WENDLAND		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/28/95		
Time		SAMPLE
09:00 AM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<17042

The Result is < Detection Limit

Data Entry by:	Ku Schroeder	Date:	05/02/95
Approved by:	[illegible]	Date:	5/3/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP- ~~080~~ 099, REV. 1

OH (AUTO) : LA-211-102 (B-1)

		DUPLICATE
TYPE	Sample Size (mL) SS	3.000
DUPLICATE	Concentration of HNO3 (Molarity)	0.1994
Vol. Dist.	HNO3 Titrant at OH end-point in mL	0.000
1258	Dilution Factor DF	9066
Test	Concentration of OH in Sample (Molarity)	0.00E+00
OH	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
SOLID		
Sample	Detection Limit = 125µg / SS * DF	
S95T000526		
Instrument Date	Detection Limit (µg/mL)	3.78E+05
Analyst	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA WENDLAND		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/28/95		
Time		DUPLICATE
09:00 AM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<377750

The Result is < Detection Limit

Data Entry by:	RW Schroeder	Date:	05/02/95
Approved by:	[illegible]	Date:	5/3/95

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-099, REV. 1

OH (AUTO) : LA-211-102 (B-1)

		SAMPLE
	Sample Size (mL) SS	3.000
SAMPLE	Concentration of HNO3 (Molarity)	0.1994
	HNO3 Titrant at OH end-point in mL	0.000
1258	Dilution Factor DF	362
	Concentration of OH in Sample (Molarity)	0.00E+00
OH	OH in Sample in µg/mL (PPM)	0.00E+00
SOLID		
	Detection Limit = 125µg / SS * DF	
S95T000527		
	Detection Limit (µg/mL)	1.51E+04
	OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA WENDLAND		
	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/28/95		
		SAMPLE
09:00 AM	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<15083

The Result is < Detection Limit

Data Entry by:	Ron Schroeder	Date:	05/02/95
Approved by:	J Mitball	Date:	5/3/95

Form 211102_1 Rev. 1.3