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			ECN NO.:	N/A
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		Date: 04/19/95		
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Washington State Department of Ecology

Single-Shell Tank Unit Manager

S. E. McKinney

P.O. Box 47600

Olympia, Washington 98504-7600

X

Environmental Protection Agency

Single-Shell Tank Unit Manager

D. R. Einan

712 Swift Boulevard, Suite 5

Richland, Washington 99352

X

U. S. Department of Energy

Jim Poppiti

12800 Middlebrook Rd.

Trevion II, EM-36

Germantown, MD 20874

X

Los Alamos Technical Associates

A. T. DiCenso

750 Swift Boulevard

Suite # 4

Richland, WA 99352

X

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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

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610419

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5. Proj./Prog./Dept./Div.: Tank 241-BY-103/Waste Management/CPR/Char. Eng.		6. Cog. Engr.: Ruth D. Schreiber		7. Purchase Order No.: N/A			
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				14. Required Response Date: 04/21/95			
15. DATA TRANSMITTED							
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Designator		
1	WHC-SD-WM-DP-104	N/A	0	45-Day Safety Screen Results for Tank 241-BY-103, Auger Samples 95-AUG-012 and 95-AUG-013	Q		
16. KEY							
Approval Designator (F)		Reason for Transmittal (G)		Disposition (H) & (I)			
E, S, Q, D or N/A (see WHC-CM-3-5, Sec. 12.7)		1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)		1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged			
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BD-7400-172-2 (04/94) GEF097

BD-7400-172-1

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Document Number: WHC-SD-WM-DP-104, REV 0

Document Title: 45-Day Safety Screen Results for Tank 241-BY-013,
Auger Samples 95-AUG-012 and 95-AUG-013

Release Date: 4/21/95

**This document was reviewed following the
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SUPPORTING DOCUMENT		1. Total Pages 31
2. Title 45-Day Safety Screen Results for Tank 241-BY-103, Auger Samples 95-AUG-012 and 95-AUG-013	3. Number WHC-SD-WM-DP-104	4. Rev No. 0
5. Key Words 45-Day Safety Screen Results, 45-Day, Safety Screen Results, Safety Screen, Results, Tank 241-BY-103, Tank BY-103, BY-103, Auger Samples, Auger, 95-AUG-012, 95-AUG-013	6. Author Name: R.D. Schreiber <i>R.D. Schreiber</i> Signature Organization/Charge Code 8E480/MDR21	
7. Abstract N/A		

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WHC-SD-WM-DP-104, REV. 0

ANALYTICAL SERVICES

**45-DAY SAFETY SCREEN RESULTS FOR TANK 241-BY-103, AUGER SAMPLES,
95-AUG-012 AND 95-AUG-013**

DATE PRINTED:

APRIL 20, 1995

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WHC-SD-WM-DP-104, REV. 0

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Worklist #	20

This Document consists of pages 1 through 28.

WHC-SD-WM-DP-104, REV. 0

NARRATIVE

45-DAY SAFETY SCREEN RESULTS FOR TANK 241-BY-103,
AUGER SAMPLES 95-AUG-012 AND 95-AUG-013

ANALYTICAL SUMMARY

Two auger samples from tank 241-BY-103 (BY-103) were received by the 222-S Laboratories and underwent safety screening analysis, consisting of differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), and total alpha activity. Analytical results for the TGA analyses for both samples were less than the safety screening notification limit. Since notification is made if the sample is analyzed at less than 17 percent water, notification was made on April 20, 1995. Although the sample results were below this limit, no secondary analyses were required or performed.

SCOPE

This document serves as the 45-day report deliverable for the tank BY-103 auger samples collected on March 8, 1995 and March 10, 1995 (95-AUG-012 and 95-AUG-013). Each sample was received, extruded, and analyzed by the 222-S Laboratories in accordance with the below referenced TCP. Included in this report are the primary safety screening results obtained from the analyses and copies of all DSC and TGA raw data scans as requested per the TCP. Photographs of the auger samples were taken during extrusion and, although not included in this report, are available.

SAMPLE RECEIPT, EXTRUSION, AND SUBSAMPLING

Auger 95-AUG-012

Auger sample 95-AUG-012 was collected from riser 10B of tank BY-103 using a 10 inch auger bit. It was received into the 222-S Laboratories on March 10, 1995 at 1600 hours and extruded on March 23, 1995. There was no drainable liquid, but 35.85 grams of solids were collected. The solids were brownish-grey in color, looked dry and crumbly, and fell off the auger onto the sample tray after the sleeve was removed. Due to the small amount of sample obtained, all material was subsampled into one jar (#6570) and was not divided into half-segments as directed in the TCP. All analysis and sample archiving requirements per the TCP were performed on this sample.

Auger 95-AUG-013

Auger sample 95-AUG-013 was collected from riser 12A of tank BY-103 using a 10 inch auger bit. It was received into the 222-S Laboratories on March 10, 1995 at 1600 hours and extruded on March 24, 1995. There was no drainable liquid, but 38.09 grams of solids were collected. The solids were yellow-brown in color, looked dry and crumbly, and fell off the auger onto the sample tray after the sleeve was removed. As with the sample material from auger 95-AUG-012, the material from 95-AUG-013 was subsampled into one jar (#6578) from which all analyses and sample archives were performed.

SAMPLE IDENTIFICATION INFORMATION

Table 1: Sample Identification

LABCORE Sample ID	Customer Sample ID	Hot Cell Vial #	Analyses
S95T000320	95-AUG-012, Riser 10B, Auger sample	NA	Extrusion
S95T000507	95-AUG-012, Riser 10B, Subsample	6668	DSC/TGA
S95T000508	95-AUG-012, Riser 10B, Fusion Digest	6668	Total Alpha
S95T000509	95-AUG-012, Riser 10B, Archive Sample	6756	Archive
S95T000321	95-AUG-013, Riser 12A, Auger sample	NA	Extrusion
S95T000511	95-AUG-013, Riser 12A, Subsample	6810	DSC/TGA
S95T000512	95-AUG-013, Riser 12A, Fusion Digest	6810	Total Alpha
S95T000513	95-AUG-013, Riser 12A, Archive Sample	6877	Archive

NA = Not Applicable

ANALYTICAL RESULTS

Analytical results are presented in Tables 2 and 3, with the applicable notification limits shaded.

DSC (Energetics Content)

DSC analyses were performed under a nitrogen atmosphere using procedure LA-514-113, Rev. B-1. Using the average percent water by TGA for each sample, dry weight basis results were calculated from the wet weight basis results. Both the wet and dry results are given in Tables 2 and 3. For both sample S95T000507 and sample S95T000511, exotherms ranging from 5.9 to 137.6 J/g (dry weight basis) were detected beginning at approximately 400 °C; however, the magnitude of these exotherms did not approach the notification limit of 481 J/g. Due to the inhomogeneity of the samples, neither sample met the TCP specified precision criterion of 10% relative percent difference (RPD). Sample precision values were 19.2 and 59.5 RPD for samples S95T000507 and S95T000511, respectively. The LMCS control standard exhibited a recovery of 104.7 percent, which was within the program's specified accuracy control limits of 90 to 110 percent recovery. Since the sample precision values did not meet the specified precision identified in the TCP, an additional analysis was performed for each of the two samples. The results for these additional analyses were 77.1 and 11.3 J/g (calculated to be 94.9 and 13.4 J/g on a dry weight basis) for samples S95T000507 and S95T000511, respectively. These results do not appear in Tables 2 and 3 but are included in the raw data.

TGA (Moisture Content)

Weight percent water was performed under a nitrogen atmosphere using procedure LA-560-112, Rev. A-2. Results for samples S95T000507 and S95T000511 and their duplicates ranged in value from 11.63 to 33.59 percent water by weight. The marked difference in the results is most likely attributable to the inhomogeneity of the sample material. The results for both samples were less than the notification limit of 17 weight percent water, although the results of the duplicate samples were greater than this limit (notification is made if the sample is analyzed at less than 17 percent water). The RPD values between the samples and their duplicates were 82.0 and 50.5 for samples S95T000507 and S95T000511, respectively, and did not meet the TCP specified precision requirement of 10%. The Laboratory Measurement Control System (LMCS) control standard exhibited a recovery of 99.98 percent, which was within the program's specified accuracy control limits of 90 to 110 percent. Since the sample precision values did not meet the specified precision identified in the TCP, an additional analysis was performed for each of the two samples. The results for these additional analyses were 18.76 and 15.72 percent water by weight for samples S95T000507 and S95T000511, respectively. These results do not appear in Tables 2 and 3 but are included in the raw data.

Total Alpha Activity

Although not required by the TCP for saltcake samples, analyses for total alpha activity were performed on samples S95T000508 and S95T000512. Samples were prepared by fusion using procedure LA-549-141, Rev. C-2, and analyses were performed using procedure LA-508-101, Rev. D-2. A sample duplicate and spike were performed on both samples. Neither sample met the TCP specified precision criterion of 10% RPD. Likewise, lower than normal spike recoveries caused both samples to exceed the accuracy control limits of 90 to 110 percent recovery, with values of 67.0% and 76.0%. This poor spike recovery was most likely due to solids observed in the sample mount. An additional run was performed for both samples from which similar results were found. The results of the rerun are given in Tables 2 and 3. Sample and duplicate alpha activities ranged from less than $3.17\text{E-}03$ to $2.68\text{E-}02$ $\mu\text{Ci/g}$, which were more than 1500 fold lower than the notification limit of 41 $\mu\text{Ci/g}$.

REFERENCE Schreiber, R. D., 1995, WHC-SD-WM-TP-231, Revision 1, "Tank 241-BY-103 Tank Characterization Plan, dated February 27, 1995.

WHC-SD-WM-DP-104, REV. 0

SAMPLE DATA SUMMARY

Safety Screen Results for Augers AUG-95-012, AUG-95-013
BY-103

CORE NUMBER: n/a
SEGMENT #: 95-AUG-012

Table 2

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
					Lower	Upper									
S95T000507			% Water by TGA using Mettler	%	17.000	105.000	99.98	n/a	14.06	33.59	23.83	82.0	n/a	0.000	n/a
S95T000507			DSC Exotherm Dry Calculated	Joules/g Dry	-1.000	481.000	n/a	n/a	87.7	137.6	n/a	n/a	n/a	1.000e-00	n/a
S95T000507			DSC Exotherm using Mettler	Joules/g	None	None	104.7	n/a	75.4	91.4	83.40	19.2	n/a	0.000	n/a
S95T000508	F		Alpha of Digested Solid	uCi/g	-1.000	41.000	90.54	<3.22e-03	2.68e-2	2.02e-2	2.35e-02	28.1	67.00	0.007	27.5

=> Limit violated

=> Selected Limit

WHC-SD-WM-DP-104, REV.0

Safety Screen Results for Augers AUG-95-012, AUG-95-013
BY-103

CORE NUMBER: n/a
SEGMENT #: 95-AUG-013

Table 3

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
					Lower	Upper										
S95T000511			% Water by TGA using Mettler	%	17.000	105.000	99.98	n/a	11.63	19.49	15.56	50.5	n/a	0.000		n/a
S95T000511			DSC Exotherm Dry Calculated	Joules/g Dry	-1.000	481.000	n/a	n/a	5.9	11.9	n/a	n/a	n/a	1.000e-00		n/a
S95T000511			DSC Exotherm using Mettler	Joules/g	None	None	104.7	n/a	5.2	9.6	7.400	59.5	n/a	0.000		n/a
S95T000512	F		Alpha of Digested Solid	uCi/g	-1.000	41.000	90.54	<3.22e-03	< 4.01e-3	<3.17e-3	n/a	n/a	76.00	0.007		500.0

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-104, REV. 0

WHC-SD-WM-DP-104, REV. 0

UNDIGESTED ANALYSES RESULTS - DIRECT

LABCORE Data Entry Template for Worklist# 938

Analyst: KRM Instrument: DSC01 Book # 12N14A

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

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

WHC-SD-WM-DP-104, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>29.8</u>	<u>N/A</u>	Joules/g
95000025	BY-103	2 SAMPLE	S95T000507	0	DSC-01	SOLID	<u>N/A</u>	<u>75.4</u>		Joules/g
95000025	BY-103	3 DUP	S95T000507	0	DSC-01	SOLID	<u>75.4</u>	<u>91.4</u>	<u>N/A</u>	Joules/g
95000025	BY-103	4 DUP2	S95T000507	0	DSC-01	SOLID	<u>75.4</u>	<u>77.1</u>	<u>N/A</u>	Joules/g
95000025	BY-103	5 SAMPLE	S95T000511	0	DSC-01	SOLID	<u>N/A</u>	<u>5.2</u>		Joules/g
95000025	BY-103	6 DUP	S95T000511	0	DSC-01	SOLID	<u>5.2</u>	<u>9.6</u>	<u>N/A</u>	Joules/g
		7 STD			DSC-01	SOLID	<u>5.2</u>	<u>28.45</u>	<u>28.2</u>	Joules/g
95000025	BY-103	8 DUP2	S95T000511	0	DSC-01	SOLID	<u>5.2</u>	<u>11.3</u>	<u>N/A</u>	Joules/g

Final page for worklist # 938

Jerry Lutz for Ken Monteith 4/19/95
Analyst Signature Date

Aurie M. Fulton 4-19-95
Analyst Signature Date

see attached for original signature
Data entry by Doreen M. Ireland
4-19-95

Verified 4/19/95
J.M. Lutz

S95T000507 has two endotherms 736.8 J/g at 125.4°C, 120.9 J/g at 302.7°C; duplicate has 609.7 J/g at 125°C, 181.0 J/g at 300°C; dup2 has 508.8 J/g at 113°C, 258.5 J/g at 274°C.
S95T000511 has two endotherms 282.1 J/g at 113.5°C, 199.4 J/g at 303°C; duplicate has 570.9 J/g at 108.2°C, 232.5 J/g at 298.4°C; dup 2 has 564.1 J/g at 108°C, 189.9 J/g at 296°C. J.M. Lutz 4/19/95

Data Entry Comments:

Brown
Samples are a light brown, grainy substance.
LAD
4-19-95

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# 938

Analyst: KRM Instrument: DSC01 Book # 12N14A

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

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

WHC-SD-WM-DP-104, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000025	BY-103	2 SAMPLE	S95T000507	0	DSC-01	SOLID	N/A			Joules/g
95000025	BY-103	3 DUP	S95T000507	0	DSC-01	SOLID			N/A	Joules/g
95000025	BY-103	4 SAMPLE	S95T000511	0	DSC-01	SOLID	N/A			Joules/g
95000025	BY-103	5 DUP	S95T000511	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 938

Analyst Signature Date 4-18-95

Analyst Signature Date

Data Entry Comments:

S95T000507 light brown, grainy

S95T000511 like a very light brown, brown sugar

Units 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# 1182

Analyst: JMF Instrument: DSC01 Book # N/A

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

Worklist Comment: Dry dsc BY-103. JMF

WHC-SD-WM-DP-104, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000025	BY-103	1 SAMPLE	S95T000507	0	DSC-02	SOLID	N/A	87.7		Joules/g Dry
95000025	BY-103	2 DUP	S95T000507	0	DSC-02	SOLID	87.7	137.6	N/A	Joules/g Dry
95000025	BY-103	3 DUP2	S95T000507	0	DSC-02	SOLID	87.7	94.9	N/A	Joules/g Dry
95000025	BY-103	4 SAMPLE	S95T000511	0	DSC-02	SOLID	N/A	5.9		Joules/g Dry
95000025	BY-103	5 DUP	S95T000511	0	DSC-02	SOLID	5.9	11.9	N/A	Joules/g Dry
95000025	BY-103	6 DUP2	S95T000511	0	DSC-02	SOLID	5.9	13.4	N/A	Joules/g Dry

Final page for worklist # 1182

JMF 4/19/95
Analyst Signature Date

Analyst Signature Date

I extend these thru parameter data
entry, this is just a paper copy
of what I entered.

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.

DSC STD 12N14-A

6.525 mg

Rate: 10.0 °C/min

File: 00182.001

DSC METTLER

18-Apr-95

Ident: 0.0

222-S Laboratory

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 12 TO 19.

exo

Integration

Delta H 194 mJ

29.8 J/g

Peak 158.5 °C

-13.6 mW

WHC-SD-WM-DP-104, REV. 0

5. mW

120.

140.

160.

180. °C

[Signature] 4-18-95

S95T000507 N2

15.382 mg

Rate: 10.0 °C/min

File: 00183.001

Ident: 0.0

DSC METTLER

18-Apr-95

222-S Laboratory

exo

WHC-SD-WM-DP-104, REV. 0

20. mW

°C

400.

300.

200.

100.

S95T000507 (DUP) N2
20.642 mg
Rate: 10.0 °C/min
File: 00185.001 DSC METTLER 18-Apr-95
Ident: 0.0 222-S Laboratory

S95T000507 (DUP2) N2
15.879 mg

File: 00193.001 DSC METTLER 19-Apr-95
Ident: 0.0 222-S Laboratory

exo

Rate: 10.0 °C/min

WHC-SD-WM-DP-104, REV. 0

S95T000511 N2
29.901 mg

Rate: 10.0 °C/min

File: 00187.001 DSC METTLER 18-Apr-95
Ident: 0.0 222-S Laboratory

WHC-SD-WM-DP-104, REV. 0

S95T000511 (DUP) N2

10.803 mg

Rate: 10.0 °C/min

File: 00189.001 DSC METTLER 19-Apr-95

Ident: 0.0 222-S Laboratory

DSC STD 12N14-A

6.340 mg

Rate: 10.0 °C/min

File: 00206.001

DSC METTLER

19-Apr-95

Ident: 0.0

222-S Laboratory

exo >

10. mW

Integration
Delta H 178 mJ
28.2 J/g
Peak 158.6 °C
-12.0 mW

WHC-SD-WM-DP-104, REV. 0

120.

140.

160.

180. °C

Lurie M. Julem 4-19-95

S95T000511 (DUP2) N2

8.654 mg

Rate: 10.0 °C/min

File: 00208.001

DSC METTLER

19-Apr-95

Ident: 0.0 222-S Laboratory

WHC-SD-WM-DP-104, REV. 0

LABCORE Data Entry Template for Worklist# 945

Analyst: KRM Instrument: TGA01 Book # 42N8A

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

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

WHC-SD-WM-DP-104, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.19</u>	<u>59.18</u>	N/A	%
95000025	BY-103	2 SAMPLE	S95T000507	0	TGA-01	SOLID	N/A	<u>14.06</u>		%
95000025	BY-103	3 DUP	S95T000507	0	TGA-01	SOLID	<u>14.06</u>	<u>33.59%</u>	N/A	%
95000025	BY-103	4 DUP2	S95T000507	0	TGA-01	SOLID	<u>14.06</u>	<u>18.76</u>	N/A	%
95000025	BY-103	5 SAMPLE	S95T000511	0	TGA-01	SOLID	N/A	<u>11.63</u>		%
95000025	BY-103	6 DUP	S95T000511	0	TGA-01	SOLID	<u>11.63</u>	<u>19.49</u>	N/A	%
95000025	BY-103	7 DUP2	S95T000511	0	TGA-01	SOLID	<u>11.63</u>	<u>15.72</u>	N/A	%

Final page for worklist # 945

4-19-95 LAD

See attached sheet for original
Analyst Signature John Fuge for Ken McKeith
Date 4/19/95

Leslie Day for Susan Fulton
Analyst Signature Date

Data entry by Panda K McFarland
4-19-95

Verified 4/19/95 J M. Fuge

Data Entry Comments:

S95T000507 has a second wt loss step, 4.03% at 423°C, dup has 7.06% at 300°C, dup2 has 7.31% at 290°C. S95T000511 has a second weight loss step of 3.19% at 249°C, dup has 3.89% at 253°C, dup2 has 4.07% at 280°C. JMF 4/19/95

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# 945

Analyst: KRM Instrument: TGA01 _____ Book # 42N8A
Method: LA-560-112 Rev/Mod A-2

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

WHC-SD-WM-DP-104, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000025	BY-103	2 SAMPLE	S95T000507	0	TGA-01	SOLID	N/A			%
95000025	BY-103	3 DUP	S95T000507	0	TGA-01	SOLID			N/A	%
95000025	BY-103	4 SAMPLE	S95T000511	0	TGA-01	SOLID	N/A			%
95000025	BY-103	5 DUP	S95T000511	0	TGA-01	SOLID			N/A	%

Final page for worklist # 945

Analyst Signature

4-18-95
Date

Analyst Signature

Date

Data Entry Comments:

S95T000507 light Brown - grainy

S95T000511 very light brown, ~~similar~~ similar to brown sugar

Units shown for QC (SPK & STD) may not reflect the actual units. DL = ^{9mF 4/19/95} 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 22 TO 28

28 April 4/20/95

TGA STD 42N8-A

16.056 mg

File: 00176.001 TG METTLER 17-Apr-95

Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory

Step Analysis

Height -9.50 mg

-59.18 %

Resid. 6.55 mg

40.82 %

Dpeak 86.3°C

WHC-SD-WM-DP-104, REV. 0

4-18-95

S95T000507 N2

11.576 mg

Rate: 10.0 °C/min

File: 00184.001

TG

METTLER

18-Apr-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height -1.63 mg

-14.06 %

ResiC. 9.95 mg

85.94 %

Step Analysis

Height -0.47 mg

-4.03 %

ResiC. 9.48 mg

81.89 %

Dpeak 423.0 °C

WHC-SD-WM-DP-104, REV.0

S95T000507 (DUP) N2

11.445 mg

Rate: 10.0 °C/min

File: 00186.001

Ident: 0.0

TG METTLER

18-Apr-95

222-S Laboratory

WHC-SD-WM-DP-104, REV. 0

Step Analysis
Height -3.84 mg
-33.59 %
ResiC. 7.60 mg
66.41 %

Step Analysis
Height -0.80 mg
-7.00 %
ResiC. 6.80 mg
59.43 %

S95T000507 (DUP2) N2

12.078 mg

Rate: 10.0 °C/min

File: 00194.001

TG

METTLER

18-Apr-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height -2.27 mg

-18.76 %

ResiC. 9.81 mg

81.24 %

Dpeak 89.0°C

Step Analysis

Height -0.88 mg

-7.31 %

ResiC. 8.78 mg

72.70 %

Dpeak 251.0°C

WHC-SD-WM-DP-104, REV.0

25

S95T000511 N2

15.498 mg

Rate: 10.0 °C/min

File: 00188.001

TG

METTLER

18-Apr-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height -1.80 mg

-11.63 %

ResiC. 13.69 mg

88.37 %

Dpeak 87.0 °C

Step Analysis

Height -0.50 mg

-3.19 %

ResiC. 13.14 mg

84.79 %

Dpeak 249.0 °C

WHC-SD-WM-DP-104, REV.0

S95T000511 (DUP) N2

14.414 mg

Rate: 10.0 °C/min

File: 00190.001

TG

METTLER

18-Apr-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height -2.81 mg

-19.49 %

ResiC. 11.60 mg

80.51 %

Dpeak 87.0 °C

Step Analysis

Height -0.56 mg

-3.89 %

ResiC. 10.91 mg

75.68 %

Dpeak 253.0 °C

WHC-SD-WM-DP-104, REV. 0

S95T000511 (DUP2) N2
7.621 mg

Rate: 10.0 °C/min

File: 00192.001 TG
Ident: 0.0 222-S Laboratory

METTLER 18-Apr-95

WHC-SD-WM-DP-104, REV. 0

Step Analysis
Height -1.20 mg
-15.72 %
Resid. 6.42 mg
84.28 %
Dpeak 59.0 °C

Step Analysis
Height -0.31 mg
-4.07 %
Resid. 6.04 mg
79.20 %