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Title/Desc:

FINAL REPORT FOR TANK 241U201 PUSH MODE CORES 70 &
73 & 74

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN No 625766

Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedure ☐ Cancel/Void ☐	3. Originator's Name, Organization, MSIN, and Telephone No. Ruth D. Schreiber, Characterization Plans, Coordination and Reports, R2- 12, 373-5589		3a. USD Required? ☐ Yes ☒ No	4. Date 10/25/95
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Release Date: 10/26/95

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

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WHC Information Release Administration Specialist:

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10/26/95

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70, 73 and 74

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BY WHC

DATE OCT 26 1995

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ANALYTICAL SERVICES

**FINAL REPORT FOR TANK 241-U-201,
PUSH MODE, CORES 70, 73 AND 74**

DATE PRINTED:

OCTOBER 24, 1995

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PART I

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**FINAL REPORT FOR TANK 241-U-201,
PUSH MODE, CORES 70, 73 AND 74**

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NARRATIVE

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FINAL REPORT FOR TANK 241-U-201,
PUSH MODE CORES 70, 73, AND 74

ANALYTICAL SUMMARY

This is the final report for tank 241-U-201, cores 70, 73, and 74. Samples from cores 70 and 73 were analyzed for safety screening purposes in accordance with the Tank 241-U-201 Tank Characterization Plan (TCP; Reference 1), and these primary safety screening results were provided in the 45-day report for tank 241-U-201 (Reference 2). Core 74, segments 1 and 2 were taken to test the rotary bit in push mode sampling, and no analyses have been requested or performed on this core. This 216-day report contains the results of the lithium analysis by inductively coupled plasma atomic emission spectroscopy (ICP), performed on material from cores 70 and 73 to determine the extent of any possible hydrostatic head fluid (HHF) contamination due to the push mode core sampling process. None of the lithium analysis results exceeded the notification limit of 100 $\mu\text{g/g}$, suggesting that no HHF contamination of the core samples occurred.

As the final report, the following items are also included: the hot cell logbook, chain of custody forms, photographs of the extruded segments, sample preparation data, and the raw data for all analyses other than differential scanning calorimetry (DSC) and thermogravimetric analysis (TGA), which were provided in Reference 2.

SAMPLE RECEIPT, EXTRUSION, AND SUBSAMPLING

A description of the sample receipt and extrusion is contained in Reference 2. Chain of custody forms, hot cell logbook pages, photographs of the extruded segments, and extrusion worklists are provided in subsequent sections of this report.

ANALYTICAL RESULTS

Analytical results for DSC, TGA, and total alpha analyses are discussed in Reference 2, and are presented in the Tables 1, 2, 3, and 4 of this report with the lithium analytical results.

ICP (Lithium)

Lithium analyses were performed by ICP using procedures LA-505-161, Rev. A-1 for drainable liquid samples and LA-505-151, Rev. D-2 for the solid samples. None of the results exceeded the notification limit of 100 $\mu\text{g/g}$ and most results were below the detection limit for lithium. Recoveries for standards and spikes were within the required range of 90 to 110% for all but one

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sample. Sample S95T000537 had a spike recovery of 88.76%. No rerun was performed as the sample and duplicate were below the detection limit.

Project Coordinator: Ruth Schreiber

REFERENCES

1. Schreiber, R. D., 1995, *Tank 241-U-201 Tank Characterization Plan*, WHC-SD-WM-TP-308, Revision 0A, Westinghouse Hanford Company, Richland, Washington.
2. Sathyanarayana, P., 1995, *45-Day Safety Screen Results for Tank 241-U-201, Push Mode, Cores 70, 73, and 74*, WHC-SD-WM-DP-107, Revision 0, Westinghouse Hanford Company, Richland, Washington.

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SAMPLE DATA SUMMARY

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FINAL REPORT FOR TANK
U-201

CORE NUMBER: 70
SEGMENT #: 1

Table 1 (1 of 2)

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000540			% Water by TGA on Perkin Elmer	%	98.41	n/a	14.34	15.20	14.77	5.82	n/a	n/a	n/a
S95T000540			DSC Exotherm on Perkin Elmer	Joules/g	103.3	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000540			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T000541	F		Alpha of Digested Solid	uCi/g	79.05	<3.11e-03	< 3.08e-3	<3.79e-3	n/a	n/a	87.70	7.01e-03	500.0
S95T000541	F		Lithium -ICP-Fusion	ug/g	102.5	-1.00e-03	< 49.4	<49.3389	n/a	n/a	91.14	49.40	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000536			% Water by TGA on Perkin Elmer	%	98.41	n/a	18.49	18.25	18.37	1.31	n/a	n/a	n/a
S95T000536			DSC Exotherm on Perkin Elmer	Joules/g	103.3	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000536			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T000537	F		Alpha of Digested Solid	uCi/g	79.05	<3.11e-03	< 3.11e-3	<3.11e-3	n/a	n/a	95.30	7.08e-03	500.0
S95T000537	F		Lithium -ICP-Fusion	ug/g	102.5	-1.00e-03	< 49.8405	<49.8504	n/a	n/a	88.76	49.80	n/a

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FINAL REPORT FOR TANK
U-201

Table 1 (2 of 2)

CORE NUMBER: 70
SEGMENT #: 1

SEGMENT PORTION: Drainable Liquid

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T000531		% Water by TGA on Perkin Elmer	%	97.50	n/a	70.50	69.46	69.98	1.49	n/a	n/a		n/a
S95T000531		DSC Exotherm on Perkin Elmer	Joules/g	102.6	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a		n/a
S95T000532	D	Lithium-ICP-Acid Dil.	ug/mL	103.5	8.00e-04	< 2.0100	<2.0100	n/a	n/a	101.4	2.010		n/a

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FINAL REPORT FOR TANK
U-201

Table 2 (1 of 2)

CORE NUMBER: 70

SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000619			% Water by TGA on Perkin Elmer	%	96.44	n/a	25.09	26.15	25.62	4.14	n/a	n/a	n/a
S95T000619			DSC Exotherm on Perkin Elmer	Joules/g	101.3	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000619			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T000622	F		Alpha of Digested Solid	uCi/g	90.20	<8.39e-04	< 8.39e-4	<1.16e-3	n/a	n/a	52.30	1.88e-03	500.0
S95T000622	F		Lithium -ICP-Fusion	ug/g	104.1	2.46e-02	< 51.4192	<51.2295	n/a	n/a	93.26	51.40	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000613			% Water by TGA on Perkin Elmer	%	96.44	n/a	30.58	31.51	31.05	3.00	n/a	n/a	n/a
S95T000613			DSC Exotherm on Perkin Elmer	Joules/g	101.3	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000613			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T000615	F		Alpha of Digested Solid	uCi/g	90.20	<8.39e-04	< 1.09e-3	<8.38e-4	n/a	n/a	63.80	1.88e-03	500.0
S95T000615	F		Lithium -ICP-Fusion	ug/g	104.1	2.46e-02	< 51.4297	<51.3769	n/a	n/a	94.00	51.40	n/a

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FINAL REPORT FOR TANK
U-201

Table 2 (2 of 2)

CORE NUMBER: 70
SEGMENT #: 2

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000625			% Water by TGA using Mettler	%	98.29	n/a	70.88	70.50	70.69	0.54	n/a	n/a	n/a
S95T000625			DSC Exotherm using Mettler	Joules/g	104.4	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000626	D		Lithium-ICP-Acid Dil.	ug/mL	103.5	8.00e-04	< 2.0100	<2.0100	n/a	n/a	99.75	2.010	n/a

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FINAL REPORT FOR TANK

U-201

Table 3 (1 of 4)

CORE NUMBER: 73

SEGMENT #: 1

SEGMENT PORTION: W Whole Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000548		% Water by TGA using Mettler	%	98.78	n/a	36.29	35.74	36.02	1.53	n/a	n/a	n/a
S95T000548		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T000548		DSC Exotherm using Mettler	Joules/g	95.61	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000549	F	Alpha of Digested Solid	uCi/g	84.46	<6.67e-04	<9.72e-4	<6.78e-4	n/a	n/a	69.30	1.52e-03	500.0
S95T000549	F	Lithium -ICP-Fusion	ug/g	100.2	1.79e-02	52.1	52.4439	n/a	n/a	92.03	52.10	n/a

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FINAL REPORT FOR TANK
U-201

Table 3 (2 of 4)

CORE NUMBER: 73
SEGMENT #: 1

SEGMENT PORTION: Drainable Liquid

Sample#	R/A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000544		% Water by TGA on Perkin Elmer	%	97.50	n/a	70.54	70.31	70.43	0.33	n/a	n/a	n/a
S95T000544		DSC Exotherm on Perkin Elmer	Joules/g	102.6	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000545	D	Lithium-ICP-Acid Dil.	ug/mL	105.1	1.30e-03	6.495	6.527	6.511	0.50	96.60	4.010	n/a

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FINAL REPORT FOR TANK
U-201

Table 3 (3 of 4)

CORE NUMBER: 73
SEGMENT #: 2

SEGMENT PORTION: W Whole Segment

Sample#	R/A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000552		% Water by TGA using Mettler	%	98.78	n/a	38.99	33.80	36.39	14.3	n/a	n/a	n/a
S95T000552		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T000552		DSC Exotherm using Mettler	Joules/g	95.61	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000553	F	Alpha of Digested Solid	uCi/g	84.46	<6.67e-04	< 7.39e-4	<9.00e-4	n/a	n/a	56.60	1.28e-03	500.0
S95T000553	F	Lithium -ICP-Fusion	ug/g	100.2	1.79e-02	< 44.0	<44.7227	n/a	n/a	90.54	44.00	n/a

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FINAL REPORT FOR TANK
U-201

Table 3 (4 of 4)

CORE NUMBER: 73
SEGMENT #: 2

SEGMENT PORTION: Drainable Liquid

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000556		% Water by TGA on Perkin Elmer	%	98.41	n/a	69.88	70.26	70.07	0.54	n/a	n/a	n/a
S95T000556		DSC Exotherm on Perkin Elmer	Joules/g	102.8	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T000557	D	Lithium-ICP-Acid Dil.	ug/mL	105.1	1.30e-03	< 4.0100	<4.0100	n/a	n/a	97.09	4.010	n/a

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CHAIN OF CUSTODY FORMS

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CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number RMS-014 (2) Sample Number 95-049 (3) Supervisor D. Hartley
 (4) Tank 241-U-201 (5) Riser 6 (6) Segment 2 (7) Core 74 (8) Cask Serial Number C1017

Radiation Survey Date:		(9) FIELD	(10) Shipment Description
Over Top Dose Rate	<u>40.5 Q Center</u>	(13) LABORATORY	A. Work Package Number <u>WS-95-00029/KC</u>
Side Dose Rate	<u>40.5 Q Center</u>	<u>50.5 mch-6 C</u>	B. Cask Seal Number <u>1214</u>
Bottom Dose Rate	<u>0.6 Q Center</u>	<u>1.6 mch-6 C</u>	C. Sampler Serial Number <u>94-164</u>
Smearable Contamination	<u>2200 ppm</u>	<u>0.5 mch-6 C</u>	D. Date and Time Sampler Unseated <u>3-17-95, 2234</u>
	(Alpha)	<u>2200 ppm</u>	E. Expected Liquid Content <u>3090</u>
	(Beta-Gamma)	<u>41000 ppm</u>	F. Expected Solid Content <u>70% Sludge</u>
RCT* (HPT)	<u>W</u>	(Alpha) <u>CIK d/r</u>	G. Dose Rate Through Drill String <u>9"</u>
RCT* (HPT)	<u>W</u>	(Beta-Gamma) <u>SW. CH</u>	H. Expected Sample Length
	(Signature)	(Signature)	

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

14.1

WHC-SD-WM-DP-107, REV. 1

(12) Field Comments		(13) Laboratory Comments	
(13) Point of Origin <u>241-U-201</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>3-20-95</u>
(19) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(20) Received By (Sign and PRINT) <u>Fuller</u>	(21) Date/Time <u>3-20-95</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>Fuller</u>	(24) Received By (Sign and PRINT) <u>Fuller</u>	(25) Date/Time <u>3-20-95</u>	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
Shipment No. <u>95-049</u>		Cask Seal No. <u>1214</u>
Sample No. <u>95-049</u>		Yes ☒ No ☐

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number RMS-014 (2) Sample Number 95-048 (3) Supervisor D. Hartley
 (4) Tank 241-U-201 (5) Riser 6 (6) Segment 1 (7) Core 74 (8) Cask Serial Number C1043

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description
Over Top Dose Rate	<u>40.5 mR/hr</u>	<u>40.5 mR/hr</u>		A. Work Package Number <u>WS-95-00029/W</u>
Side Dose Rate	<u>40.5 mR/hr</u>	<u>40.5 mR/hr</u>		B. Cask Seal Number <u>1213</u>
Bottom Dose Rate	<u>1 mR/hr @ CONTACT</u>	<u>1 mR/hr @ C</u>		C. Sampler Serial Number <u>94-157</u>
Smearable Contamination	<u>420 DPM</u> (Alpha)	<u>420 DPM</u> (Alpha)		D. Date and Time Sampler Unseated <u>3-17-95, 2124</u>
	<u>41000 DPM</u> (Beta-Gamma)	<u>41000 DPM</u> (Beta-Gamma)		E. Expected Liquid Content <u>50%</u>
RCT* (HPT)	<u>[Signature]</u> (Signature)	RCT* (HPT)	<u>[Signature]</u> (Signature)	F. Expected Solid Content <u>50% SLUDGE</u>
				G. Dose Rate Through Drill String <u>200 mR/hr</u>
				H. Expected Sample Length <u>10"</u>

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

14.2

WHCSD-WM-DP-107, REV. 2

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin <u>241-U-201</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>3-20-95 10:30</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(20) Received By (Sign and PRINT) <u>KAREN LEE</u>	(21) Date/Time <u>3-20-95</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>KAREN LEE</u>	(24) Received By (Sign and PRINT) <u>[Signature]</u>	(25) Date/Time <u>03-20-95</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time <u>03-20-95</u>	(30) Receiver Comments	

(18) Seal Intact Upon Release?

☒ Yes☐ No

(31) Seal Intact Upon Receipt?

☒ Yes☐ No

Shipment No.

☒ Yes☐ No

(32) Seal Date Consistent with this Record?

Cask Seal No.

☒ Yes☐ No

Sample No.

☒ Yes☐ No

DISTRIBUTION

White - Office of Sample Management

Yellow - Recipient of Sample

Pink

a Sampling, S6-85

Goldenrod - Tank Farm Operations, S4-43

000-309 (02/94)

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number RMS-013 (2) Sample Number 95-047 (3) Supervisor M. C. Jones
 (4) Tank U-201 (5) Riser 6 (6) Segment 002 (7) Core 23 (8) Cask Serial Number C-1053

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description	
Over Top Dose Rate	<u>4.5 mR/hr</u>		<u>4.5 mR/hr</u>	A. Work Package Number	<u>WS-95-00029</u>
Side Dose Rate	<u>2.5 mR/hr</u>		<u>2.5 mR/hr</u>	B. Cask Seal Number	<u>2339</u>
Bottom Dose Rate	<u>2.5 mR/hr</u>		<u>4.5 mR/hr</u>	C. Sampler Serial Number	<u>94-171</u>
Smearable Contamination	<u>L20 L</u>		<u>4.70 dpm/100cm²</u>	D. Date and Time Sampler Unseated	<u>3-16-95/12:56</u>
	(Alpha)		(Alpha)	E. Expected Liquid Content	<u>30%</u>
	<u>LIKESY L20 L</u>		<u>4.14 dpm/100cm²</u>	F. Expected Solid Content	<u>70% SLUDGE</u>
	(Beta-Gamma)		(Beta-Gamma)	G. Dose Rate Through Drill String	<u>120 mR/hr</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>[Signature]</u>	H. Expected Sample Length	<u>12"</u>
	(Signature)		(Signature)		

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

143

WHCSD-MM-DP-107, REV. 1

(12) Field Comments	(34) Laboratory Comments

(13) Point of Origin <u>241-U-201</u>	(14) Destination <u>222S</u>	(15) Sender Name (Sign and PRINT) <u>M. C. Jones M. C. Jones</u>	(16) Date/Time <u>3-17-95 1345</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>M. C. Jones</u>	(20) Received By (Sign and PRINT) <u>KAREN LEE</u>	(21) Date/Time <u>3-17-95</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>KAREN LEE</u>	(24) Received By (Sign and PRINT) <u>Goldenrod Cobb</u>	(25) Date/Time <u>03-17-95</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

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

GOPY

GOPY

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CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number RMS-012 (2) Sample Number 95-037 (3) Supervisor M.C. Jones
 (4) Tank U-201 (5) Riser 2 (6) Segment 002 (7) Core 70 (8) Cask Serial Number 1003-C

Radiation Survey Date:		(9) FIELD	(33) LABORATORY	(10) Shipment Description	
Over Top Dose Rate	<u>4.5 mR/hr</u>		<u>4.5 mR/hr</u>	A. Work Package Number	<u>WS-95-00029</u>
Side Dose Rate	<u>1.2 mR/hr</u>		<u>2.0 mR/hr</u>	B. Cask Seal Number	<u>X^{MCJ} 2337</u>
Bottom Dose Rate	<u>1.2 mR/hr</u>		<u>.5 mR/hr</u>	C. Sampler Serial Number	<u>94-172</u>
Smearable Contamination	<u>120 dpm/100cm²</u> (Alpha)		<u>120 dpm/100cm²</u> (Alpha)	D. Date and Time Sampler Unseated	<u>3-15-95 / 13:55</u>
	<u>41K RY dpm/100cm²</u> (Beta-Gamma)		<u>41K dpm/100cm²</u> (Beta-Gamma)	E. Expected Liquid Content	<u>30%</u>
RCT* (HPT) <u>Chen</u> (Signature)		RCT* (HPT) <u>Jan</u> (Signature)		F. Expected Solid Content	<u>70% sludge</u>
				G. Dose Rate Through Drill String	<u>90 mR/hr</u>
				H. Expected Sample Length	<u>13"</u>

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

14.5 Characterization Plan WtL-SD-WA-Tp-308

WHCSD-WM-DP-107, REV. 1

(13) Point of Origin <u>241-U-201</u>		(14) Destination <u>222-S</u>		(15) Sender Name (Sign and PRINT) <u>M.C. Jones M.C. Jones</u>		(16) Date/Time <u>3-16-95 10:00</u>		(17) Sender Comments	
(19) Relinquished By (Sign and PRINT) <u>M.C. Jones M.C. Jones</u>		(20) Received By (Sign and PRINT) <u>KAREN C. LEE</u>		(21) Date/Time <u>3-16-95 11:25</u>		(22) Receiver Comments			
(23) Relinquished By (Sign and PRINT) <u>KAREN LEE</u>		(24) Received By (Sign and PRINT) <u>Senior Cobb Senior Cobb</u>		(25) Date/Time <u>3-16-95 11:00</u>		(26) Receiver Comments			
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)		(29) Date/Time		(30) Receiver Comments			
(18) Seal Intact Upon Release? ☒ Yes ☐ No		(31) Seal Intact Upon Receipt? ☒ Yes ☐ No		(32) Seal Data Consistent with this Record? Shipment No. <u>95-037</u> ☒ Yes ☐ No Cask Seal No. ☐ Yes ☐ No Sample No. ☒ Yes ☐ No					

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number RMS-012 (2) Sample Number 95-036 (3) Supervisor M.C. Jones
 (4) Tank U-201 (5) Riser 2 (6) Segment 001 (7) Core 70 (8) Cask Serial Number C-1050

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description
Over Top Dose Rate	<u>1.5 mR/hr</u>	<u>1.5 mR/hr</u>	<u>1.5 mR/hr</u>	A. Work Package Number <u>WS-95-00029</u>
Side Dose Rate	<u>1.5 mR/hr</u>	<u>1.8 mR/hr</u>	<u>1.8 mR/hr</u>	B. Cask Seal Number <u>2336</u>
Bottom Dose Rate	<u>1.5 mR/hr</u>	<u>1.7 mR/hr</u>	<u>1.7 mR/hr</u>	C. Sampler Serial Number <u>94-120</u>
Smearable Contamination	<u>520 dpm/100cm²</u> (Alpha)	<u>520 dpm/100cm²</u> (Alpha)	<u>520 dpm/100cm²</u> (Alpha)	D. Date and Time Sampler Unseated <u>3-15-95/ 9:20</u>
	<u>41KBY dpm/100cm²</u> (Beta-Gamma)	<u>41KBY dpm/100cm²</u> (Beta-Gamma)	<u>41KBY dpm/100cm²</u> (Beta-Gamma)	E. Expected Liquid Content <u>50%</u>
RCT* <u>(Signature)</u> (HPT)		RCT* <u>(Signature)</u> (HPT)		F. Expected Solid Content <u>50% Sludge</u>
				G. Dose Rate Through Drill String <u>30mR/hr</u>
				H. Expected Sample Length <u>10"</u>

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

14.6

characterization plan WHC-SD-WM-TP-308

WHC-SD-WM-DP-107, REV. 1

(12) Field Comments		(34) Laboratory Comments		
(13) Point of Origin <u>241-U</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones M.C. Jones</u>	(16) Date/Time <u>3-16-95 11:10</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>		(20) Received By (Sign and PRINT) <u>KAREN C. LEE</u>	(21) Date/Time <u>3-16-95 11:00</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>KAREN C. LEE</u>		(24) Received By (Sign and PRINT) <u>Sandra Cobb</u>	(25) Date/Time <u>3-16-95 11:00</u>	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments
(18) Seal Intact Upon Release? ☒ Yes ☐ No		(31) Seal Intact Upon Receipt? ☐ Yes ☐ No		(32) Seal Data Consistent with this Record? ☐ Yes ☐ No
Shipment No. <u>NEW</u>		Cask Seal No. ☐ Yes ☐ No		Sample No. ☐ Yes ☐ No

WHC-SD-WM-DP-107, REV. 1

PHOTOGRAPHS

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U-201 Case 10 Seq #1

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5/20/95

1701 Core 10 SEG #2

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3/30/95

U-201 Core 73 Segment #1

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U-201 Core 73 Segment #2

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3/30/85

U-201 Core 74 Segment #1

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U-201 Core 74 Seg #1 Riser #6

WHC-SD-WMO P107 Rev 1

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U-201 Core 74 Seg #2 Riser #6

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3/30/95

U-201 Core 74 Seg #1 Riser #6

Recap:

6680

111.35 grams

6706

159.63 grams

270.98 grams

~~3/30/95~~
~~6706~~
~~6680~~
~~111.35~~
~~159.63~~
~~270.98~~

U-201 Core 74 Seg #1 Riser #6
(PHOTOGRAPHY)

3/30/95

U-201 Core 74 Segment #1

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number RMS-014 (2) Sample Number 95-049 (3) Supervisor D. Marthey (4) Tank 241-4-201 (5) Riser 6 (6) Segment 2 (7) Core 74 (8) Cask Serial Number C1017

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	40.5 μ R/hr	40.5 μ R/hr	40.5 μ R/hr	40.5 μ R/hr	40.5 μ R/hr	A. Work Package Number	WS-95-00099/LC
Side Dose Rate	40.5 μ R/hr	40.5 μ R/hr	40.5 μ R/hr	40.5 μ R/hr	40.5 μ R/hr	B. Cask Seal Number	1214
Bottom Dose Rate	0.6 μ R/hr	0.6 μ R/hr	0.6 μ R/hr	0.6 μ R/hr	0.6 μ R/hr	C. Sampler Serial Number	94-164
Smearable Contamination	2.20 Bq/m ²	2.20 Bq/m ²	2.20 Bq/m ²	2.20 Bq/m ²	2.20 Bq/m ²	D. Date and Time Sampler Unsealed	3-17-95 2234
	(Alpha)	(Alpha)	(Alpha)	(Alpha)	(Alpha)	E. Expected Liquid Content	3096
	4100 Bq/m ²	4100 Bq/m ²	4100 Bq/m ²	4100 Bq/m ²	4100 Bq/m ²	F. Expected Solid Content	70% S1092
	(Beta-Gamma)	(Beta-Gamma)	(Beta-Gamma)	(Beta-Gamma)	(Beta-Gamma)	G. Dose Rate Through Drill String	50 mR/hr
	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	H. Expected Sample Length	9"
	RCI	RCI	RCI	RCI	RCI		

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

(12) Field Comments		(14) Destination		(15) Sender Name (Sign and PRINT)		(16) Date/Time		(17) Sender Comments	
		241-4-201		M.C. Jones		3-20-95			
				(19) Relinquished By (Sign and PRINT)		(21) Date/Time		(22) Receiver Comments	
				M.C. Jones		3-20-95			
				(23) Relinquished By (Sign and PRINT)		(25) Date/Time		(26) Receiver Comments	
				M.C. Jones		3-20-95			
				(27) Relinquished By (Sign and PRINT)		(29) Date/Time		(30) Receiver Comments	
				M.C. Jones		3-20-95			

(13) Point of Origin		(14) Destination		(15) Sender Name (Sign and PRINT)		(16) Date/Time		(17) Sender Comments	
241-4-201		241-4-201		M.C. Jones		3-20-95			
				(19) Relinquished By (Sign and PRINT)		(21) Date/Time		(22) Receiver Comments	
				M.C. Jones		3-20-95			
				(23) Relinquished By (Sign and PRINT)		(25) Date/Time		(26) Receiver Comments	
				M.C. Jones		3-20-95			
				(27) Relinquished By (Sign and PRINT)		(29) Date/Time		(30) Receiver Comments	
				M.C. Jones		3-20-95			

(18) Seal Intact Upon Release? ☒ Yes ☐ No
 (31) Seal Intact Upon Receipt? ☒ Yes ☐ No
 Shipment No. ☒ Yes ☐ No
 Cask Seal No. ☒ Yes ☐ No
 Sample No. ☒ Yes ☐ No

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

U-201 Core 74 Seg #2 Riser 6

3/30/95

* PC = Pat Sathya

* LabCore # S95TOP0413

Worklist # 851

Deserate 50 m³/hr

Tape # 7 U-Farm

20 gms = 19.99 gms

500 = 499.96 gms

Temperature 81.8° F

Humidity = 20%

NO liner liquid

3:07 PM Valve Closed before Cutting Cable

3:10 PM Valve closed after Cutting Cable

3:20 PM Valve opened

Drainable Liquids:

light yellow, similar to 1st 1st segment
collected about 88 gramsSolidsExtruded about 7 inches of yellow ^{probs} ~~solids~~ mixed with
little crystals like snow with black dots.Stopped extrusion since the piston lodged inside the
sampler halfway. Could not complete the extrusion.

Tried to extrude the sample with the hydraulic extruder.

Still could not push the piston out. Collected the solids ^{RE7} ~~by~~
a spatula.Subsample Information:U201 C74 Segment # 2 - Solids (extruded solids)

Salt cake/crystals(ice)

JAE* 6677 (125 mls)

Final wt: 233.77 gms

Snow crystals in

Initial wt: 128.60 gms

Consistency

net wt: 105.17 gms

3/30/95

U201 Core 74 Segment #2 Drainable liquid

Jar # 6707 (250 ml jar size)

Final wt: 310.36 gm

Initial wt: 222.31 gm

net wt: 88.05 gm

U201C74S2-DL

3/31/95

U201 C74 Segment #2 - Solids.

These solids were removed from the sample valve with a
spatula and place in a jar.

jar # 6678

Final wt: 194.84 gm

Initial wt: 128.85 gm

net wt: 65.99 gm

Post Extrusion:

6677 105.17 Solids

6707 88.05 Drainable liquid

6678 65.99 Post Extrusion Solids

259.21

With Truth
3/31/95

U-201 Core 74 Segment #2

3/28/95

U-201 Core 74 Seg #2 Riser #6

March 3, 95

HOMOGENTIZATION & SUBSAMPLING
1-2-01 Core 3B SEG 7 R15R #2

* JAN# 6579 (Solid) (125ml)
Analyzed wt. 210.07 grams
Found wt. 137.26
Net wt. 72.81

* JAN# 6512 (20ml)
Analyzed wt. 27.61 gram
Found wt. 32.12
Net wt. 44.6

* JAN# 6758 (410ml)
Analyzed wt. 25.37 gram
Found wt. 81.59
Net wt. 56.22

- Transferred 446 grams into JAN# 6512, Submitted to Lab. DSC/TKM/2/Fusion
* - Transferred the remaining sample (56.22 grams) into JAN# 6758 Archive!
JAN# 6579 has been destroyed.

* JAN# 6605 (Solid) (125ml)
Analyzed wt. 240.49 gram
Found wt. 146.04
Net wt. 94.45

* JAN# 6813 (20ml)
Analyzed wt. 27.21 gram
Found wt. 32.66
Net wt. 5.45

* JAN# 6759 (410ml)
Analyzed wt. 25.34 gram
Found wt. 96.37
Net wt. 71.03

- Transferred 545 grams into JAN# 6813, submitted to Lab. DSC/TKM/2/Fusion
* - Transferred the remaining sample into JAN# 6759 Archive! JAN# 6605
has been destroyed.

John B. B.
3/31/95

March 31/95

HOMOGENIZATION & SUBSAMPLING
U-201 (C01 70 SEG-7) RISER #2

- Transferred 7.65 grams into jar # 6811, submitted to Lab: NSG, TGA, Fusion, &
- Transferred 26.91 grams into jar # 6757; Transferred the whole sample; JAR# 6604 has been Destroyed.

[Handwritten signature/initials]
3-31-95

WHC-SD-WM-DP-107, REV. 1

HOMOGENIZATION & SUBSAMPLING

April 3, 95

U201 Core 73 SEG: 1 RISER # 6

* JAR # 6675 (Solids) (125 ml)
 Initial wt. 145.69 gram
 Final wt. 130.30
 Net wt. 15.39 ↓

JAR # 6814 (20 ml)
 Initial wt. 27.29 gram
 Final wt. 33.05
 Net wt. 5.76 ↓

Archive 595T000550
 * JAR # 6760 (40 ml)
 Initial wt. 25.43 gram
 Final wt. 32.78
 Net wt. 7.35 ↓

- Transferred 5.76 gram into JAR # 6814. Submitted to Lab: DSC, TGA, Fusion, HPLC.
 * - Transferred 7.35 gram into jar # 6760 Archive; Transferred the entire sample; jar # 6675 has been destroyed.

JAR # 6703 (Liq.) (250 ml)
 Initial wt. 366.17 grams
 Final wt. 313.54
 Net wt. 52.63 ↓

(5 ml)
 JAR # 6817 (20 ml)
 Initial wt. 27.42 gram
 Final wt. 33.47
 Net wt. 6.05 ↓

(38 ml)
 Archive 595T000546
 JAR # 6763 (40 ml)
 Initial wt. 25.54 gram
 Final wt. 71.99
 Net wt. 46.45 ↓

- Transferred 6.05 gram into jar # 6817. Submitted to Lab: DSC, TGA, ICP.
 - Transferred 46.45 gram (38 ml) into jar # 6763 (Archive).

Shirley B. Brown
 4/3/95

April 3, 95

HOMOGENIZATION & SUBSAMPLING

U201 Core 73 Sec: 2 Riser #6

- Transferred 6.39 grams into jar #6815, submitted to Lab: DSC, TGA, Fusion, d
- Transferred 66.86 grams into jar #6761 (ARCHIVE)
- Transferred entire sample into jar #6554 (70ml); jar #6705 has been destroyed.

- Transferred 6.09 grams into jar #6816. Submitted to Lab: DSC, TGA, ICP
- Transferred 45.30 grams into jar #6762; Archive sample.

April 6, 95

HOMOGENIZATION & SubSAMPLINGU-201 Core 70 SEG #2 (Drainable Lig)

- Transferred 8.33 grams into Jar #6828, which has been submitted to the Lab: DSC, TGA, ICP.
- Transferred the remaining sample into Jar #6880 (Archive).
Nte: Jar #6698 has been destroyed.

U-201 Core 70 SEG #2 (Lower half solid)

- Transferred 6.40 grams into Jar #6829, submitted to Lab: DSC/TGA/ICP
- Transferred 58.25 gram into Jar #6881, submitted to Lab: ACRB
Archive sample.

April 6, 85

HOMOGENIZATION & SUBSAMPLINGU201 Core 70 SEGMENT 2

- Transferred 5.5 grams into JAN# 6830, which was submitted to the Lab: DSC/TGA. / 2.
 - Transferred the remaining sample into JAN# 6882; (Archive)
- Note: JAN# 6606 has been destroyed.

WHC-SD-WM-DP-107, REV. 1

SAMPLE HANDLING

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LABCORE Data Entry Template for Worklist# 775

Analyst: EC Instrument: BA000 NA Book # NA

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

Worklist Comment: U-201 Core 70 Segment #1 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000029	U-201	3	SAMPLE	S95T000346	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>35</u> <u>35.25</u>		ml
95000029	U-201	4	SAMPLE	S95T000346	0		DLIQMT01	SOLID	<u>N/A</u>	<u>35</u>		g
95000029	U-201	5	SAMPLE	S95T000346	0		EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/ml
95000029	U-201	6	SAMPLE	S95T000346	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000029	U-201	7	SAMPLE	S95T000346	0		LLIQMT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000029	U-201	8	SAMPLE	S95T000346	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>WHC-N-1131</u>		
95000029	U-201	9	SAMPLE	S95T000346	0		SLDVOL01	SOLID	<u>N/A</u>	<u>193</u>		ml
95000029	U-201	10	SAMPLE	S95T000346	0		SLDWT-01	SOLID	<u>N/A</u>	<u>193</u>		g
95000029	U-201	11	SAMPLE	S95T000346	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 775

EC 3-30-95
Analyst Signature Date

EC 3-30-95
Analyst Signature Date

Data Entry Comments:

Review by RKJ/llw 3/30/95

LABCORE Data Entry Template for Worklist# 776

Analyst: Rbr Instrument: BA000 NA Book # NA

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

Worklist Comment: U-201 Core 70 Segment #2

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.98</u>	<u>N/A</u>	
95000029	U-201	3 SAMPLE	S95T000347	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>59</u>		ml
95000029	U-201	4 SAMPLE	S95T000347	0	DLIQWT01	SOLID	<u>N/A</u>	<u>59</u>		g
95000029	U-201	5 SAMPLE	S95T000347	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/ml
95000029	U-201	6 SAMPLE	S95T000347	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000029	U-201	7 SAMPLE	S95T000347	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000029	U-201	8 SAMPLE	S95T000347	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>WHC-N-1131</u>		
50000029	U-201	9 SAMPLE	S95T000347	0	SLDVOL01	SOLID	<u>N/A</u>	<u>259</u>		ml
95000029	U-201	10 SAMPLE	S95T000347	0	SLDWT-01	SOLID	<u>N/A</u>	<u>259</u>		g
95000029	U-201	11 SAMPLE	S95T000347	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 776

EAL 3-30-95
Analyst Signature Date

EAL 3-30-95
Analyst Signature Date

Data Entry Comments:

Review by RK 3/30/95

LABCORE Data Entry Template for Worklist# 849

Analyst: EC Instrument: BA000 NA Book # NA

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

Worklist Comment: U-201 C73 Segment 1 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>20.00</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000033	U-201	3	SAMPLE	S95T000410	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>142</u>		mL
95000033	U-201	4	SAMPLE	S95T000410	0		DLIQWT01	SOLID	<u>N/A</u>	<u>142</u>		g
95000033	U-201	5	SAMPLE	S95T000410	0		EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/mL
95000033	U-201	6	SAMPLE	S95T000410	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000033	U-201	7	SAMPLE	S95T000410	0		LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000033	U-201	8	SAMPLE	S95T000410	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>WHC-N-1131</u>		
95000033	U-201	9	SAMPLE	S95T000410	0		SLDVOL01	SOLID	<u>N/A</u>	<u>17</u>		mL
95000033	U-201	10	SAMPLE	S95T000410	0		SLDWT-01	SOLID	<u>N/A</u>	<u>17</u>		g
95000033	U-201	11	SAMPLE	S95T000410	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 849

EC 3-31-95
Analyst Signature Date

EC 3-31-95
Analyst Signature Date

Data Entry Comments:

Reviewed 4/3/95
Rb70/bv

Units 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# 848

Analyst: EC Instrument: BA000 NA Book # NA

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

Worklist Comment: U-201 C73 Segment 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000033	U-201	3	SAMPLE	S95T000411	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>117</u>		mL
95000033	U-201	4	SAMPLE	S95T000411	0		DLIQWT01	SOLID	<u>N/A</u>	<u>117</u>		g
95000033	U-201	5	SAMPLE	S95T000411	0		EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/mL
95000033	U-201	6	SAMPLE	S95T000411	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000033	U-201	7	SAMPLE	S95T000411	0		LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000033	U-201	8	SAMPLE	S95T000411	0		NOTECOK	SOLID	<u>N/A</u>	<u>WHC-11-1131</u>		
95000033	U-201	9	SAMPLE	S95T000411	0		SLDVOL01	SOLID	<u>N/A</u>	<u>132</u>		mL
95000033	U-201	10	SAMPLE	S95T000411	0		SLDWT-01	SOLID	<u>N/A</u>	<u>132</u>		g
95000033	U-201	11	SAMPLE	S95T000411	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 848

EC 3-31-95
Analyst Signature Date

EC 3-31-95
Analyst Signature Date

Data Entry Comments:

Reviewed by RKF ^{EC}

Units 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# 850

Analyst: EC Instrument: BA000 NA Book # NA

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

Worklist Comment: U-201 C74 Segment 1 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>50.0</u>	<u>499.98</u>	<u>N/A</u>	
95000034	U-201	3	SAMPLE	S95T000412	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>159</u>		ml
95000034	U-201	4	SAMPLE	S95T000412	0		DLIQWT01	SOLID	<u>N/A</u>	<u>159</u>		g
95000034	U-201	5	SAMPLE	S95T000412	0		EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/ml
95000034	U-201	6	SAMPLE	S95T000412	0		EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000034	U-201	7	SAMPLE	S95T000412	0		LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000034	U-201	8	SAMPLE	S95T000412	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>WHC-N-1131</u>		
95000034	U-201	9	SAMPLE	S95T000412	0		SLDVOL01	SOLID	<u>N/A</u>	<u>111</u>		ml
95000034	U-201	10	SAMPLE	S95T000412	0		SLDWT-01	SOLID	<u>N/A</u>	<u>111</u>		g
95000034	U-201	11	SAMPLE	S95T000412	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 850

EC 4-3-95
Analyst Signature Date

EC 4-3-95
Analyst Signature Date

Data Entry Comments:

Reviewed by DK 4/4/95

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# 851

Analyst: EC Instrument: BA000 NA Book # NA

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

Worklist Comment: U-201 C74 Segment 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.96</u>	<u>N/A</u>	
95000034	U-201	3	SAMPLE	S95T000413	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>88</u>		ml
95000034	U-201	4	SAMPLE	S95T000413	0		DLIQWT01	SOLID	<u>N/A</u>	<u>88</u>		g
95000034	U-201	5	SAMPLE	S95T000413	0		EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/ml
95000034	U-201	6	SAMPLE	S95T000413	0		EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000034	U-201	7	SAMPLE	S95T000413	0		LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000034	U-201	8	SAMPLE	S95T000413	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>Wt-N-1131</u>		
95000034	U-201	9	SAMPLE	S95T000413	0		SLDVOL01	SOLID	<u>N/A</u>	<u>105</u>		ml
95000034	U-201	10	SAMPLE	S95T000413	0		SLDWT-01	SOLID	<u>N/A</u>	<u>105</u>		g
95000034	U-201	11	SAMPLE	S95T000413	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 851

EC 4-3-95
Analyst Signature Date

EC 4-3-95
Analyst Signature Date

Data Entry Comments:

*Reviewed by
RKA 4/4/95*

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# 1069

Analyst: EC Instrument: BA000 Book # NA

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

Worklist Comment: U-201 Archive Samples

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.72</u>	<u>N/A</u>	
95000029	U-201	3 SAMPLE	S95T000538	0 X	ARCHIVE 6758	SOLID	<u>N/A</u>	<u>56.22</u>		g
95000029	U-201	4 SAMPLE	S95T000542	0 X	ARCHIVE 6759	SOLID	<u>N/A</u>	<u>71.03</u>		g
95000029	U-201	5 SAMPLE	S95T000616	0 X	ARCHIVE 6881	SOLID	<u>N/A</u>	<u>58.25</u>		g
95000029	U-201	6 SAMPLE	S95T000623	0 X	ARCHIVE 6882	SOLID	<u>N/A</u>	<u>70.81</u>		g
95000033	U-201	7 SAMPLE	S95T000550	0 X	ARCHIVE 6760	SOLID	<u>N/A</u>	<u>7.35</u>		g
95000033	U-201	8 SAMPLE	S95T000554	0 X	ARCHIVE 6761	SOLID	<u>N/A</u>	<u>66.86</u>		g
95000029	U-201	9 SAMPLE	S95T000627	0 X	ARCHIVE 6880	LIQUID	<u>N/A</u>	<u>49.57</u>		g
95000029	U-201	10 SAMPLE	S95T000533	0 X	ARCHIVE 6757	LIQUID	<u>N/A</u>	<u>26.91</u>		g
95000033	U-201	11 SAMPLE	S95T000546	0 X	ARCHIVE 6763	LIQUID	<u>N/A</u>	<u>46.45</u>		g
95000033	U-201	12 SAMPLE	S95T000558	0 X	ARCHIVE 6762	LIQUID	<u>N/A</u>	<u>45.30</u>		g

Final page for worklist # 1069

EC 4-25-95
Analyst Signature Date

EC 4-25-95
Analyst Signature Date

Data Entry Comments:

*Reviewed by
PK Miller
4/26/95*

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

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WHC-SD-WM-DP-107, REV. 1

SAMPLE PREPARATIONS

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WHC-SD-WM-DP-107, REV. 1

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LABCORE Data Entry Template for Worklist# 993

Analyst: mcj Instrument: FUS01 AL11066 Book # _____

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

Worklist Comment: U-201 FUSION DIGEST - 536--- > 537, 540--- > 541

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250mL</u>	<u>250mL</u>	<u>N/A</u>	g/L
95000029	U-201	2 SAMPLE	S95T000537	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0064</u>		g/L
95000029	U-201	3 DUP	S95T000537	0 F	FUSION01	SOLID	<u>2.0064</u>	<u>2.0060</u>	<u>N/A</u>	g/L
95000029	U-201	4 SAMPLE	S95T000541	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0260</u>		g/L
95000029	U-201	5 DUP	S95T000541	0 F	FUSION01	SOLID	<u>2.0260</u>	<u>2.0268</u>	<u>N/A</u>	g/L

Final page for worklist # 993

Mike Jones 4-16-95 0600 am
Analyst Signature Date

[Signature] 4-16-95
Analyst Signature Date

537
Smp

$$\frac{.5016 \text{ G}}{.250 \text{ L}} = 2.0064 \text{ G/L}$$

20ml HCl

541
Smp

$$\frac{.5065 \text{ G}}{.250 \text{ L}} = 2.0260 \text{ G/L}$$

20ml HCl

537
Dup

$$\frac{.5015 \text{ G}}{.250 \text{ L}} = 2.0060 \text{ G/L}$$

20ml HCl

541
Dup

$$\frac{.5067 \text{ G}}{.250 \text{ L}} = 2.0268 \text{ G/L}$$

20ml HCl

<0.5 mg/L or outside of 16 gallon container
Kahaly 4-16-95

Data Entry Comments:

S95T000541 Smp has a brown tint, with some metal shivers attached to the magnet.

Bernard Guffey II 4-17-95

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

[Signature] 66 67

LABCORE Data Entry Template for Worklist# 994

Analyst:

QJM

Instrument:

FUS01 AL11066

Book #

Method: LA-549-141 Rev/Mod

C-2

Worklist Comment: U-201 FUSION DIGEST - 548--->549, 552--->553

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>	<u>250ml</u>	N/A	g/L
95000033	U-201	2 SAMPLE	S95T000549	0 F	FUSION01	SOLID	N/A	<u>1.9200</u>		g/L
95000033	U-201	3 DUP	S95T000549	0 F	FUSION01	SOLID	<u>1.9200</u>	<u>1.9068</u>	N/A	g/L
95000033	U-201	4 SAMPLE	S95T000553	0 F	FUSION01	SOLID	N/A	<u>2.2740</u>		g/L
95000033	U-201	5 DUP	S95T000553	0 F	FUSION01	SOLID	<u>2.2740</u>	<u>2.2360</u>	N/A	g/L

Final page for worklist # 994

Jason Murphy 4-11-95
Analyst Signature Date

Bertrand Griffin II 4-13-95
Analyst Signature Date

549
SAMPLE

$$\frac{20 \text{ ml HCl} \cdot 4800 \text{ g}}{250 \text{ l}} = 1.9200 \text{ g/l}$$

553
SAMPLE

$$\frac{20 \text{ ml HCl} \cdot 5685 \text{ g}}{250 \text{ l}} = 2.2740 \text{ g/l}$$

549
DUP

$$\frac{20 \text{ ml HCl} \cdot 4767 \text{ g}}{250 \text{ l}} = 1.9068 \text{ g/l}$$

553
DUP

$$\frac{20 \text{ ml HCl} \cdot 5590 \text{ g}}{250 \text{ l}} = 2.2360 \text{ g/l}$$

Data Entry Comments:

Samples and dups were clear. < 1% solids
HPT was Joe Valdez < .5 mK₂O/H₂ at Contact
Bertrand Griffin II 4-13-95

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

LABCORE Data Entry Template for Worklist# 1128

Analyst: MCJ Instrument: FUS01 AL11066 Book # _____

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

Worklist Comment: U-201 FUSION - 613->615, 619->622

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		<u>250ml</u>	<u>N/A</u>	<u>g/L</u>
95000029	U-201	2 SAMPLE	S95T000615	0 F	FUSION01	SOLID	<u>N/A</u>	<u>1.9444</u>		<u>g/L</u>
95000029	U-201	3 DUP	S95T000615	0 F	FUSION01	SOLID	<u>1.9444</u>	<u>1.9464</u>	<u>N/A</u>	<u>g/L</u>
95000029	U-201	4 SAMPLE	S95T000622	0 F	FUSION01	SOLID	<u>N/A</u>	<u>1.9448</u>		<u>g/L</u>
95000029	U-201	5 DUP	S95T000622	0 F	FUSION01	SOLID	<u>1.9448</u>	<u>1.9520</u>	<u>N/A</u>	<u>g/L</u>

Final page for worklist # 1128

Mike Jones 4.18.95
Analyst Signature Date

Bernard Giff II 4-21-95
Analyst Signature Date

615
Smp $\frac{.4861 \text{ G}}{.250 \text{ L}} = 1.9444 \text{ G/L}$ 20ml HCl

622
Smp $\frac{.4862 \text{ G}}{.250 \text{ L}} = 1.9448 \text{ G/L}$ 20ml HCl

615
Dup $\frac{.4866 \text{ G}}{.250 \text{ L}} = 1.9464 \text{ G/L}$ 20ml HCl

622
Dup $\frac{.4880 \text{ G}}{.250 \text{ L}} = 1.9520 \text{ G/L}$ 20ml HCl

<0.5 mrad/hr AT GATED WITH OUTSIDE P CATION

MC 4-18-95

Data Entry Comments:

Bernard Giff II 4-21-95

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

LABCORE Data Entry Template for Worklist# 1261

Analyst: cmf Instrument: ACD01 NOPIE Book # _____

Method: LA-505-158 Rev/Mod A3

Worklist Comment: RUSH!!!U-201 ACID DIL.-531->532, 544->545, 556->557, 625->626

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIL01	LIQUID	<u>50ml</u>	<u>50ml</u>	<u>N/A</u>	DF
		2	STD-PREP				ACIDIL01	LIQUID	<u>DF: 20, 20</u>	<u>N/A</u>		DF
95000029	U-201	3	SAMPLE	S95T000532	0	D	ACIDIL01	LIQUID	<u>N/A</u>	<u>20</u>		DF
95000029	U-201	4	DUP	S95T000532	0	D	ACIDIL01	LIQUID	<u>20</u>	<u>20</u>	<u>N/A</u>	DF
95000033	U-201	5	SAMPLE	S95T000545	0	D	ACIDIL01	LIQUID	<u>N/A</u>	<u>20</u>		DF
95000033	U-201	6	DUP	S95T000545	0	D	ACIDIL01	LIQUID	<u>20</u>	<u>20</u>	<u>N/A</u>	DF
95000033	U-201	7	SAMPLE	S95T000557	0	D	ACIDIL01	LIQUID	<u>N/A</u>	<u>20</u>		DF
95000033	U-201	8	DUP	S95T000557	0	D	ACIDIL01	LIQUID	<u>20</u>	<u>20</u>	<u>N/A</u>	DF
95000029	U-201	9	SAMPLE	S95T000626	0	D	ACIDIL01	LIQUID	<u>N/A</u>	<u>20</u>		DF
95000029	U-201	10	DUP	S95T000626	0	D	ACIDIL01	LIQUID	<u>20</u>	<u>20</u>	<u>N/A</u>	DF

Final page for worklist # 1261

Analyst Signature

Date

4-27-95

Analyst Signature

Date

Bertand Giff II 4-27-95

Data Entry Comments:

Dose rate was 11 mR/hr. HPT was Jim Evans

Bertand Giff II 4-27-95

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.

WHC-SD-WM-DP-107, REV. 1

INORGANIC ANALYSES

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LABCORE Data Entry Template for Worklist# 1095

Analyst: B. GOLUCKE Instrument: ICP01 ^{ICP02} _{64 4-28-01} Book# 41848A

Method: LA-505-¹⁶¹~~151~~ ₄₋₂₈₋₀₁ Rev/Mod A-1

Worklist Comment: ICP U-201 DIRECT Li only

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 ICV			@ICP-QC	QC		
2 ICB			@ICP-QC	QC		
3 ICSA			@ICP-QC	QC		
4 ICSAB			@ICP-QC	QC		
5 SAMPLE	S95T000626	0 D	@ICP-D03	LIQUID	95000029	U-201
Analytes Requested: LI-D-01						
6 DUP	S95T000626	0 D	@ICP-D03	LIQUID		
7 SPK	S95T000626	0 D	@ICP-D03	LIQUID		
8 CCV			@ICP-QC	QC		
9 CCB			@ICP-QC	QC		
10 SAMPLE	S95T000532	0 D	@ICP-D03	LIQUID	95000029	U-201
Analytes Requested: LI-D-01						
11 DUP	S95T000532	0 D	@ICP-D03	LIQUID		
12 SPK	S95T000532	0 D	@ICP-D03	LIQUID		
13 ICSA			@ICP-QC	QC		
14 ICSAB			@ICP-QC	QC		
15 CCV			@ICP-QC	QC		
16 CCB			@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1095

s Type Sample# R A Test Matrix Group# Project

Final page for worklist # 1095

[Signature] 4-28-95
Analyst Signature Date

Analyst Signature Date

Sample 626 .05mL - 10mL DF = 201
1 Dup .05mL - 10mL DF = 201
- SR .05mL - 10mL - 2mL - 10mL DF = 1005
POST .05mL - 2mL - 8mL DF = 201

Sample 532

1 Dup SAME sample size as above
- SR
POST

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

4/10/95 10:24 (19)
48 73

1095	1	ICV	AG	5.1587	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	AL	5.1916	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	AS	5.3362	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	B	5.1285	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	BA	5.1503	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	BE	5.4043	1	4/28/95	09:55	bjo	0.005	@ICP-QC
1095	1	ICV	BI	5.2381	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	CA	5.3342	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	CD	5.3149	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	CE	5.2207	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	CO	5.3631	1	4/28/95	09:55	bjo	0.02	@ICP-QC
1095	1	ICV	CR	5.3214	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	CU	5.2499	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	EU	0.0022	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	FE	5.2971	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	K	5.2432	1	4/28/95	09:55	bjo	0.3	@ICP-QC
1095	1	ICV	LA	5.2131	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	LI	5.1728	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	MG	5.1607	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	MN	5.2001	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	MO	5.3061	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	NA	5.1464	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	ND	5.3382	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	NI	5.2502	1	4/28/95	09:55	bjo	0.02	@ICP-QC
1095	1	ICV	P	5.1889	1	4/28/95	09:55	bjo	0.2	@ICP-QC
1095	1	ICV	PB	5.296	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	S	5.2568	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	SB	5.0041	1	4/28/95	09:55	bjo	0.2	@ICP-QC
1095	1	ICV	SE	5.1828	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	SI	4.7058	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	SM	5.2208	1	4/28/95	09:55	bjo	0.1	@ICP-QC
1095	1	ICV	SR	5.128	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	TH	-0.1487	1	4/28/95	09:55	bjo	0	@ICP-QC
1095	1	ICV	TI	5.0965	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	TL	5.1448	1	4/28/95	09:55	bjo	0.2	@ICP-QC
1095	1	ICV	U	10.4181	1	4/28/95	09:55	bjo	0.4	@ICP-QC
1095	1	ICV	V	5.2275	1	4/28/95	09:55	bjo	0.05	@ICP-QC
1095	1	ICV	Y	0.011	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	ZN	5.3415	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	1	ICV	ZR	5.2087	1	4/28/95	09:55	bjo	0.01	@ICP-QC
1095	2	ICB	AG	0.0002	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	AL	-0.0007	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	AS	0.0047	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	B	0	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	BA	0	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	BE	-0.0002	1	4/28/95	09:59	bjo	0.005	@ICP-QC
1095	2	ICB	BI	0.0088	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	CA	0.0059	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	CD	-0.0005	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	CE	-0.0017	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	CO	0.0014	1	4/28/95	09:59	bjo	0.02	@ICP-QC
1095	2	ICB	CR	-0.0014	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	CU	-0.0007	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	EU	0.0009	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	FE	0.0014	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	K	0.0293	1	4/28/95	09:59	bjo	0.3	@ICP-QC
1095	2	ICB	LA	0.0004	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	LI	0.0008	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	MG	-0.0057	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	MN	0.0002	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	MO	-0.0036	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	NA	0.0073	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	ND	-0.0007	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	NI	0.001	1	4/28/95	09:59	bjo	0.02	@ICP-QC
1095	2	ICB	P	0.0057	1	4/28/95	09:59	bjo	0.2	@ICP-QC
1095	2	ICB	PB	0.0218	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	S	-0.0047	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	SB	-0.0084	1	4/28/95	09:59	bjo	0.2	@ICP-QC
1095	2	ICB	SE	0.0115	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	SI	-0.0001	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	SM	0.0085	1	4/28/95	09:59	bjo	0.1	@ICP-QC
1095	2	ICB	SR	0	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	TH	-0.0046	1	4/28/95	09:59	bjo	0	@ICP-QC
1095	2	ICB	TI	0	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	TL	-0.0369	1	4/28/95	09:59	bjo	0.2	@ICP-QC
1095	2	ICB	U	0.0321	1	4/28/95	09:59	bjo	0.4	@ICP-QC
1095	2	ICB	V	0.0018	1	4/28/95	09:59	bjo	0.05	@ICP-QC
1095	2	ICB	Y	0.0005	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	ZN	0	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	2	ICB	ZR	0.0007	1	4/28/95	09:59	bjo	0.01	@ICP-QC
1095	3	ICSA	AG	0.0012	1	4/28/95	10:03	bjo	0.01	@ICP-QC
1095	3	ICSA	AL	253.282	1	4/28/95	10:03	bjo	0.05	@ICP-QC
1095	3	ICSA	AS	0.0135	1	4/28/95	10:03	bjo	0.05	@ICP-QC
1095	3	ICSA	B	-0.0091	1	4/28/95	10:03	bjo	0.05	@ICP-QC
1095	3	ICSA	BA	0.0019	1	4/28/95	10:03	bjo	0.05	@ICP-QC
1095	3	ICSA	BE	0	1	4/28/95	10:03	bjo	0.005	@ICP-QC
1095	3	ICSA	BI	0.0342	1	4/28/95	10:03	bjo	0.1	@ICP-QC
1095	3	ICSA	CA	255.934	1	4/28/95	10:03	bjo	0.1	@ICP-QC
1095	3	ICSA	CD	0.0023	1	4/28/95	10:03	bjo	0.01	@ICP-QC
1095	3	ICSA	CE	0.0091	1	4/28/95	10:03	bjo	0.1	@ICP-QC
1095	3	ICSA	CO	0.001	1	4/28/95	10:03	bjo	0.02	@ICP-QC
1095	3	ICSA	CR	-0.0004	1	4/28/95	10:03	bjo	0.01	@ICP-QC
1095	3	ICSA	CU	-0.0047	1	4/28/95	10:03	bjo	0.01	@ICP-QC
1095	3	ICSA	EU	-0.0614	1	4/28/95	10:03	bjo	0.05	@ICP-QC
1095	3	ICSA	FE	98.2033	1	4/28/95	10:03	bjo	0.05	@ICP-QC
1095	3	ICSA	K	0.0484	1	4/28/95	10:03	bjo	0.3	@ICP-QC
1095	3	ICSA	LA	-0.0013	1	4/28/95	10:03	bjo	0.05	@ICP-QC

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10/24/95
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SP
04/24

1095	3	ICSA	LI	0.0037	1	4/28/95	10:03	bjo	0.01	@ICP-QC	
1095	3	ICSA	MG	256.384	1	4/28/95	10:03	bjo	0.1	@ICP-QC	
1095	3	ICSA	MN	0.0016	1	4/28/95	10:03	bjo	0.01	@ICP-QC	
1095	3	ICSA	MO	-0.0174	1	4/28/95	10:03	bjo	0.05	@ICP-QC	
1095	3	ICSA	NA	200.219	1	4/28/95	10:03	bjo	0.1	@ICP-QC	
1095	3	ICSA	ND	-0.0002	1	4/28/95	10:03	bjo	0.1	@ICP-QC	
1095	3	ICSA	NI	-0.0226	1	4/28/95	10:03	bjo	0.02	@ICP-QC	
1095	3	ICSA	P	0.0837	1	4/28/95	10:03	bjo	0.2	@ICP-QC	
1095	3	ICSA	PB	0.0723	1	4/28/95	10:03	bjo	0.1	@ICP-QC	
1095	3	ICSA	S	0.0472	1	4/28/95	10:03	bjo	0.05	@ICP-QC	
1095	3	ICSA	SB	0.0104	1	4/28/95	10:03	bjo	0.2	@ICP-QC	
1095	3	ICSA	SE	0.0708	1	4/28/95	10:03	bjo	0.1	@ICP-QC	
1095	3	ICSA	SI	0.0165	1	4/28/95	10:03	bjo	0.05	@ICP-QC	
1095	3	ICSA	SM	0.0005	1	4/28/95	10:03	bjo	0.1	@ICP-QC	
1095	3	ICSA	SR	-0.0004	1	4/28/95	10:03	bjo	0.01	@ICP-QC	
1095	3	ICSA	TH	-0.0424	1	4/28/95	10:03	bjo	0	@ICP-QC	
1095	3	ICSA	TI	0.001	1	4/28/95	10:03	bjo	0.01	@ICP-QC	
1095	3	ICSA	TL	0.0246	1	4/28/95	10:03	bjo	0.2	@ICP-QC	
1095	3	ICSA	U	0.1485	1	4/28/95	10:03	bjo	0.4	@ICP-QC	
1095	3	ICSA	V	0.0032	1	4/28/95	10:03	bjo	0.05	@ICP-QC	
1095	3	ICSA	Y	0.0067	1	4/28/95	10:03	bjo	0.01	@ICP-QC	
1095	3	ICSA	ZN	-0.0028	1	4/28/95	10:03	bjo	0.01	@ICP-QC	
1095	3	ICSA	ZR	0.0023	1	4/28/95	10:03	bjo	0.01	@ICP-QC	
1095	4	ICSAB	AG	0.9936	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	AL	277.31	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	AS	0.0162	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	B	-0.009	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	BA	0.4849	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	BE	0.5044	1	4/28/95	10:07	bjo	0.005	@ICP-QC	
1095	4	ICSAB	BI	0.0404	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	CA	277.19	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	CD	0.9705	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	CE	-0.0011	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	CO	0.4823	1	4/28/95	10:07	bjo	0.02	@ICP-QC	
1095	4	ICSAB	CR	0.4739	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	CU	0.5089	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	EU	-0.0755	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	FE	103.848	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	K	0.0343	1	4/28/95	10:07	bjo	0.3	@ICP-QC	
1095	4	ICSAB	LA	-0.0019	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	LI	1.0211	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	MG	279.922	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	MN	0.4704	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	MO	-0.0174	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	NA	202.103	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	ND	-0.005	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	NI	0.9376	1	4/28/95	10:07	bjo	0.02	@ICP-QC	
1095	4	ICSAB	P	0.1064	1	4/28/95	10:07	bjo	0.2	@ICP-QC	
1095	4	ICSAB	PB	1.0482	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	S	0.0567	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	SB	-0.003	1	4/28/95	10:07	bjo	0.2	@ICP-QC	
1095	4	ICSAB	SE	0.1113	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	SI	0.0173	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	SM	-0.0051	1	4/28/95	10:07	bjo	0.1	@ICP-QC	
1095	4	ICSAB	SR	-0.0005	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	TH	-0.0476	1	4/28/95	10:07	bjo	0	@ICP-QC	
1095	4	ICSAB	TI	0.0013	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	TL	0.0256	1	4/28/95	10:07	bjo	0.2	@ICP-QC	
1095	4	ICSAB	U	0.0887	1	4/28/95	10:07	bjo	0.4	@ICP-QC	
1095	4	ICSAB	V	0.49	1	4/28/95	10:07	bjo	0.05	@ICP-QC	
1095	4	ICSAB	Y	0.0068	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	ZN	0.9941	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	4	ICSAB	ZR	0.002	1	4/28/95	10:07	bjo	0.01	@ICP-QC	
1095	5	S95T000626	LI-D-01	2.01	201	4/28/95	10:16	bjo	0.01	@ICP-QC	
1095	6	S95T000626	DUP LI-D-01	<2.0100	<2.0100	201	4/28/95	10:25	bjo	0.01	@ICP-QC
1095	7	S95T000626_A	SPK LI-D-01	201	200.489	201	4/28/95	10:29	bjo	0.01	@ICP-QC
1095	8		CCV AG	5.1688	1	4/28/95	10:34	bjo	0.01	@ICP-QC	
1095	8		CCV AL	5.1635	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV AS	5.3255	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV B	5.1233	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV BA	5.1056	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV BE	5.387	1	4/28/95	10:34	bjo	0.005	@ICP-QC	
1095	8		CCV BI	5.2053	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV CA	5.405	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV CD	5.3122	1	4/28/95	10:34	bjo	0.01	@ICP-QC	
1095	8		CCV CE	5.2031	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV CO	5.3442	1	4/28/95	10:34	bjo	0.02	@ICP-QC	
1095	8		CCV CR	5.3148	1	4/28/95	10:34	bjo	0.01	@ICP-QC	
1095	8		CCV CU	5.2252	1	4/28/95	10:34	bjo	0.01	@ICP-QC	
1095	8		CCV EU	0.0016	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV FE	5.298	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV K	5.172	1	4/28/95	10:34	bjo	0.3	@ICP-QC	
1095	8		CCV LA	5.1862	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV LI	5.1165	1	4/28/95	10:34	bjo	0.01	@ICP-QC	
1095	8		CCV MG	5.1364	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV MN	5.1888	1	4/28/95	10:34	bjo	0.01	@ICP-QC	
1095	8		CCV MO	5.2977	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV NA	5.0888	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV ND	5.3116	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV NI	5.2641	1	4/28/95	10:34	bjo	0.02	@ICP-QC	
1095	8		CCV P	5.3705	1	4/28/95	10:34	bjo	0.2	@ICP-QC	
1095	8		CCV PB	5.3048	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV S	5.2529	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV SB	5.002	1	4/28/95	10:34	bjo	0.2	@ICP-QC	
1095	8		CCV SE	5.1548	1	4/28/95	10:34	bjo	0.1	@ICP-QC	
1095	8		CCV SI	4.7755	1	4/28/95	10:34	bjo	0.05	@ICP-QC	
1095	8		CCV SM	5.1796	1	4/28/95	10:34	bjo	0.1	@ICP-QC	

Handwritten:
10/24/95

1095	8	CCV	SR	5.1039	1	4/28/95	10:34	bjo	0.01	@ICP-QC
1095	8	CCV	TH	-0.1528	1	4/28/95	10:34	bjo	0	@ICP-QC
1095	8	CCV	TI	5.0851	1	4/28/95	10:34	bjo	0.01	@ICP-QC
1095	8	CCV	TL	5.1661	1	4/28/95	10:34	bjo	0.2	@ICP-QC
1095	8	CCV	U	10.3164	1	4/28/95	10:34	bjo	0.4	@ICP-QC
1095	8	CCV	V	5.2229	1	4/28/95	10:34	bjo	0.05	@ICP-QC
1095	8	CCV	Y	0.011	1	4/28/95	10:34	bjo	0.01	@ICP-QC
1095	8	CCV	ZN	5.3481	1	4/28/95	10:34	bjo	0.01	@ICP-QC
1095	8	CCV	ZR	5.1944	1	4/28/95	10:34	bjo	0.01	@ICP-QC
1095	9	CCB	AG	0.0024	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	AL	-0.0157	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	AS	0.0156	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	B	-0.0034	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	BA	-0.0001	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	BE	-0.0003	1	4/28/95	10:38	bjo	0.005	@ICP-QC
1095	9	CCB	BI	0.0088	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	CA	0.008	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	CD	-0.0008	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	CE	0.0077	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	CO	0.0011	1	4/28/95	10:38	bjo	0.02	@ICP-QC
1095	9	CCB	CR	-0.0009	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	CU	-0.001	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	EU	0.0007	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	FE	0.0011	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	K	0.099	1	4/28/95	10:38	bjo	0.3	@ICP-QC
1095	9	CCB	LA	0.0001	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	LI	0.0008	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	MG	-0.0058	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	MN	0.0001	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	MO	0.0005	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	NA	0.0099	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	ND	-0.0012	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	NI	-0.0072	1	4/28/95	10:38	bjo	0.02	@ICP-QC
1095	9	CCB	P	0.0234	1	4/28/95	10:38	bjo	0.2	@ICP-QC
1095	9	CCB	PB	0.0109	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	S	-0.0066	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	SB	-0.0036	1	4/28/95	10:38	bjo	0.2	@ICP-QC
1095	9	CCB	SE	0.0099	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	SI	0.0228	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	SM	0.011	1	4/28/95	10:38	bjo	0.1	@ICP-QC
1095	9	CCB	SR	0	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	TH	-0.0022	1	4/28/95	10:38	bjo	0	@ICP-QC
1095	9	CCB	TI	-0.0005	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	TL	-0.0495	1	4/28/95	10:38	bjo	0.2	@ICP-QC
1095	9	CCB	U	0.0358	1	4/28/95	10:38	bjo	0.4	@ICP-QC
1095	9	CCB	V	0.002	1	4/28/95	10:38	bjo	0.05	@ICP-QC
1095	9	CCB	Y	0.0003	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	ZN	0.0007	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	9	CCB	ZR	0.0005	1	4/28/95	10:38	bjo	0.01	@ICP-QC
1095	10	S95T000532	LI-D-01	2.01	201	4/28/95	10:46	bjo	0.01	@ICP-QC
1095	11	S95T000532	LI-D-01	<2.0100	201	4/28/95	10:50	bjo	0.01	@ICP-QC
1095	12	S95T000532_A	LI-D-01	203.838	201	4/28/95	10:55	bjo	0.01	@ICP-QC
1095	13	ICSA	AG	0.0082	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	AL	255.461	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	AS	0.0082	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	B	-0.0101	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	BA	0.0019	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	BE	-0.0001	1	4/28/95	10:59	bjo	0.005	@ICP-QC
1095	13	ICSA	BI	0.027	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	CA	258.824	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	CD	0.0021	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	CE	0.0138	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	CO	0.0028	1	4/28/95	10:59	bjo	0.02	@ICP-QC
1095	13	ICSA	CR	-0.0009	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	CU	-0.0038	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	EU	-0.0884	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	FE	98.7139	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	K	0.1111	1	4/28/95	10:59	bjo	0.3	@ICP-QC
1095	13	ICSA	LA	-0.0008	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	LI	0.0037	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	MG	258.85	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	MN	0.0017	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	MO	-0.0179	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	NA	201.752	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	ND	-0.0011	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	NI	-0.0234	1	4/28/95	10:59	bjo	0.02	@ICP-QC
1095	13	ICSA	P	0.1131	1	4/28/95	10:59	bjo	0.2	@ICP-QC
1095	13	ICSA	PB	0.0705	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	S	0.0461	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	SB	0.014	1	4/28/95	10:59	bjo	0.2	@ICP-QC
1095	13	ICSA	SE	0.0801	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	SI	0.0421	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	SM	-0.0004	1	4/28/95	10:59	bjo	0.1	@ICP-QC
1095	13	ICSA	SR	-0.0006	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	TH	-0.0414	1	4/28/95	10:59	bjo	0	@ICP-QC
1095	13	ICSA	TI	0.0013	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	TL	0.0614	1	4/28/95	10:59	bjo	0.2	@ICP-QC
1095	13	ICSA	U	0.1433	1	4/28/95	10:59	bjo	0.4	@ICP-QC
1095	13	ICSA	V	0.0026	1	4/28/95	10:59	bjo	0.05	@ICP-QC
1095	13	ICSA	Y	0.0067	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	ZN	-0.0028	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	13	ICSA	ZR	0.0022	1	4/28/95	10:59	bjo	0.01	@ICP-QC
1095	14	ICSAB	AG	1.0083	1	4/28/95	11:04	bjo	0.01	@ICP-QC
1095	14	ICSAB	AL	290.518	1	4/28/95	11:04	bjo	0.05	@ICP-QC
1095	14	ICSAB	AS	-0.0039	1	4/28/95	11:04	bjo	0.05	@ICP-QC
1095	14	ICSAB	B	-0.0072	1	4/28/95	11:04	bjo	0.05	@ICP-QC
1095	14	ICSAB	BA	0.4903	1	4/28/95	11:04	bjo	0.05	@ICP-QC

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1095	14	ICSAB	BE	0.5114	1 4/28/95	11:04	bjo	0.005 @ICP-QC
1095	14	ICSAB	BI	0.0391	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	CA	285.232	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	CD	0.9842	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	CE	0.0078	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	CO	0.4916	1 4/28/95	11:04	bjo	0.02 @ICP-QC
1095	14	ICSAB	CR	0.4832	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	CU	0.5135	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	EU	-0.0879	1 4/28/95	11:04	bjo	0.05 @ICP-QC
1095	14	ICSAB	FE	105.859	1 4/28/95	11:04	bjo	0.05 @ICP-QC
1095	14	ICSAB	K	0.0792	1 4/28/95	11:04	bjo	0.3 @ICP-QC
1095	14	ICSAB	LA	-0.0017	1 4/28/95	11:04	bjo	0.05 @ICP-QC
1095	14	ICSAB	LI	1.0239	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	MG	283.514	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	MIN	0.4787	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	MO	-0.0186	1 4/28/95	11:04	bjo	0.05 @ICP-QC
1095	14	ICSAB	NA	203.708	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	ND	-0.0054	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	NI	0.9433	1 4/28/95	11:04	bjo	0.02 @ICP-QC
1095	14	ICSAB	P	0.1139	1 4/28/95	11:04	bjo	0.2 @ICP-QC
1095	14	ICSAB	PB	1.0655	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	S	0.0607	1 4/28/95	11:04	bjo	0.05 @ICP-QC
1095	14	ICSAB	SB	-0.007	1 4/28/95	11:04	bjo	0.2 @ICP-QC
1095	14	ICSAB	SE	0.0707	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	SI	0.0249	1 4/28/95	11:04	bjo	0.05 @ICP-QC
1095	14	ICSAB	SM	-0.0091	1 4/28/95	11:04	bjo	0.1 @ICP-QC
1095	14	ICSAB	SR	-0.0006	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	TH	-0.0428	1 4/28/95	11:04	bjo	0 @ICP-QC
1095	14	ICSAB	TI	0.0008	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	TL	0.0361	1 4/28/95	11:04	bjo	0.2 @ICP-QC
1095	14	ICSAB	U	0.0643	1 4/28/95	11:04	bjo	0.4 @ICP-QC
1095	14	ICSAB	V	0.4999	1 4/28/95	11:04	bjo	0.05 @ICP-QC
1095	14	ICSAB	Y	0.0069	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	ZN	1.0097	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	14	ICSAB	ZR	0.0018	1 4/28/95	11:04	bjo	0.01 @ICP-QC
1095	15	CCV	AG	5.2445	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	AL	5.3151	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	AS	5.4497	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	B	5.3024	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	BA	5.3244	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	BE	5.5913	1 4/28/95	11:07	bjo	0.005 @ICP-QC
1095	15	CCV	BI	5.3762	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	CA	5.5341	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	CD	5.4667	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	CE	5.4348	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	CO	5.4964	1 4/28/95	11:07	bjo	0.02 @ICP-QC
1095	15	CCV	CR	5.4531	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	CU	5.4256	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	EU	0.002	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	FE	5.4265	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	K	5.4694	1 4/28/95	11:07	bjo	0.3 @ICP-QC
1095	15	CCV	LA	5.4181	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	LI	5.3439	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	MG	5.2963	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	MIN	5.3264	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	MO	5.4598	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	NA	5.3043	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	ND	5.5499	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	NI	5.4172	1 4/28/95	11:07	bjo	0.02 @ICP-QC
1095	15	CCV	P	5.4603	1 4/28/95	11:07	bjo	0.2 @ICP-QC
1095	15	CCV	PB	5.4296	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	S	5.4146	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	SB	5.1571	1 4/28/95	11:07	bjo	0.2 @ICP-QC
1095	15	CCV	SE	5.3041	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	SI	4.8262	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	SM	5.425	1 4/28/95	11:07	bjo	0.1 @ICP-QC
1095	15	CCV	SR	5.3158	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	TH	-0.1488	1 4/28/95	11:07	bjo	0 @ICP-QC
1095	15	CCV	TI	5.2766	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	TL	5.3512	1 4/28/95	11:07	bjo	0.2 @ICP-QC
1095	15	CCV	U	10.791	1 4/28/95	11:07	bjo	0.4 @ICP-QC
1095	15	CCV	V	5.3873	1 4/28/95	11:07	bjo	0.05 @ICP-QC
1095	15	CCV	Y	0.011	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	ZN	5.4251	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	15	CCV	ZR	5.3861	1 4/28/95	11:07	bjo	0.01 @ICP-QC
1095	16	CCB	AG	0.0009	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	AL	-0.002	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	AS	0.005	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	B	-0.0051	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	BA	0	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	BE	-0.0002	1 4/28/95	11:11	bjo	0.005 @ICP-QC
1095	16	CCB	BI	-0.0067	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	CA	0.0121	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	CD	0	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	CE	0.0049	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	CO	0.001	1 4/28/95	11:11	bjo	0.02 @ICP-QC
1095	16	CCB	CR	0.001	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	CU	-0.0003	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	EU	0.0007	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	FE	0.0021	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	K	0.1135	1 4/28/95	11:11	bjo	0.3 @ICP-QC
1095	16	CCB	LA	0.0002	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	LI	0.0007	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	MG	-0.0003	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	MIN	0.0004	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	MO	-0.0024	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	NA	0.0082	1 4/28/95	11:11	bjo	0.1 @ICP-QC

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1095	16	CCB	NO	0.0011	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	NI	-0.004	1 4/28/95	11:11	bjo	0.02 @ICP-QC
1095	16	CCB	P	0.0294	1 4/28/95	11:11	bjo	0.2 @ICP-QC
1095	16	CCB	PB	0.0244	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	S	0.0068	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	SB	0.0008	1 4/28/95	11:11	bjo	0.2 @ICP-QC
1095	16	CCB	SE	0.0082	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	SI	0.0103	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	SM	0.0068	1 4/28/95	11:11	bjo	0.1 @ICP-QC
1095	16	CCB	SR	0	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	TH	-0.0045	1 4/28/95	11:11	bjo	0 @ICP-QC
1095	16	CCB	TI	0.0008	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	TL	-0.0109	1 4/28/95	11:11	bjo	0.2 @ICP-QC
1095	16	CCB	U	0.0324	1 4/28/95	11:11	bjo	0.4 @ICP-QC
1095	16	CCB	V	0.0018	1 4/28/95	11:11	bjo	0.05 @ICP-QC
1095	16	CCB	Y	0.0002	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	ZN	0.0012	1 4/28/95	11:11	bjo	0.01 @ICP-QC
1095	16	CCB	ZR	0.0007	1 4/28/95	11:11	bjo	0.01 @ICP-QC

50 04/25/95

10/24/95 Jan
153

LABCORE Data Entry Template for Worklist# 1096

Analyst: JK Seto Instrument: ICP01 Book# 41848a

Method: LA-505-151 Rev/Mod AL

Worklist Comment: ICP U-201 DIRECT Li only

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	SAMPLE	S95T000545 0 D	@ICP-D03	LIQUID	95000033	U-201
	Analytes Requested: LI-D-01					
6	DUP	S95T000545 0 D	@ICP-D03	LIQUID		
7	SPK	S95T000545 0 D	@ICP-D03	LIQUID		
8	CCV		@ICP-QC	QC		
9	CCB		@ICP-QC	QC		
10	SAMPLE	S95T000557 0 D	@ICP-D03	LIQUID	95000033	U-201
	Analytes Requested: LI-D-01					
11	DUP	S95T000557 0 D	@ICP-D03	LIQUID		
12	SPK	S95T000557 0 D	@ICP-D03	LIQUID		
13	ICSA		@ICP-QC	QC		
14	ICSAB		@ICP-QC	QC		
15	CCV		@ICP-QC	QC		
16	CCB		@ICP-QC	QC		

Data Entry Comments:

JK Seto
10/24/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1096

S Type Sample# R A Test Matrix Group# Project

Final page for worklist # 1096

JX 04-28-95
Analyst Signature Date

Analyst Signature Date

S95T000545_L	.025-10-1-4	JF 1005	
S95T000545	.025-10	401	
S95T000545-D	.025-10	401	
S95T000545-Q	.025-10	401	.025 ml sample + 2 ml SST5 + 8 ml HNO3
S95T000557_L	.025-10-1-4	1005	
S95T000557	.025-10	401	
S95T000557-D	.025-10	401	
S95T000557-Q	.025-10	401	.025 ml sample + 2 ml SST5 + 8 ml HNO3

Data Entry Comments:

80 04/28/95

10/24/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1000	1			ICV	AG				4.8235		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
2	1000	1			ICV	AL				5.1336		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
3	1000	1			ICV	AS				5.0860		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
4	1000	1			ICV	B				5.0754		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
5	1000	1			ICV	BA				5.1814		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
6	1000	1			ICV	BE				5.3701		1.0000	04/28/95	09:58	dks	0.006	@ICP-QC			
7	1000	1			ICV	BI				5.0784		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
8	1000	1			ICV	CA				5.1685		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
9	1000	1			ICV	CD				5.1463		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
10	1000	1			ICV	CE				5.1813		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
11	1000	1			ICV	CO				5.2158		1.0000	04/28/95	09:58	dks	0.02	@ICP-QC			
12	1000	1			ICV	CR				5.1359		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
13	1000	1			ICV	CU				5.1808		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
14	1000	1			ICV	FE				5.0871		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
15	1000	1			ICV	K				5.1021		1.0000	04/28/95	09:58	dks	0.3	@ICP-QC			
16	1000	1			ICV	LA				5.1228		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
17	1000	1			ICV	LI				5.2582		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
18	1000	1			ICV	MG				5.1144		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
19	1000	1			ICV	MN				5.0885		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
20	1000	1			ICV	MO				5.2115		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
21	1000	1			ICV	NA				5.1318		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
22	1000	1			ICV	ND				5.1327		1.0000	04/28/95	09:58	dks	0.02	@ICP-QC			
23	1000	1			ICV	NI				5.1001		1.0000	04/28/95	09:58	dks	0.2	@ICP-QC			
24	1000	1			ICV	P				5.2158		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
25	1000	1			ICV	PB				5.0478		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
26	1000	1			ICV	S				5.1777		1.0000	04/28/95	09:58	dks	0.2	@ICP-QC			
27	1000	1			ICV	SB				4.8444		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
28	1000	1			ICV	SE				5.5230		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
29	1000	1			ICV	SI				4.8482		1.0000	04/28/95	09:58	dks	0.1	@ICP-QC			
30	1000	1			ICV	SM				4.8625		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
31	1000	1			ICV	SR				5.1600		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
32	1000	1			ICV	TI				5.0384		1.0000	04/28/95	09:58	dks	0.2	@ICP-QC			
33	1000	1			ICV	TL				5.0505		1.0000	04/28/95	09:58	dks	0.4	@ICP-QC			
34	1000	1			ICV	U				10.0072		1.0000	04/28/95	09:58	dks	0.05	@ICP-QC			
35	1000	1			ICV	V				5.0288		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
36	1000	1			ICV	ZN				5.0683		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
37	1000	1			ICV	ZR				5.0838		1.0000	04/28/95	09:58	dks	0.01	@ICP-QC			
38	1000	2			ICB	AG				-0.0014		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
39	1000	2			ICB	AL				-0.0138		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
40	1000	2			ICB	AS				0.0121		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
41	1000	2			ICB	B				0.0037		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
42	1000	2			ICB	BA				0.0008		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
43	1000	2			ICB	BE				0.0015		1.0000	04/28/95	10:01	dks	0.006	@ICP-QC			
44	1000	2			ICB	BI				-0.0037		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
45	1000	2			ICB	CA				0.0020		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
46	1000	2			ICB	CD				0.0011		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
47	1000	2			ICB	CE				-0.0015		1.0000	04/28/95	10:01	dks	0.02	@ICP-QC			
48	1000	2			ICB	CO				0.0000		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
49	1000	2			ICB	CR				-0.0018		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
50	1000	2			ICB	CU				-0.0024		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
51	1000	2			ICB	FE				0.0002		1.0000	04/28/95	10:01	dks	0.3	@ICP-QC			
52	1000	2			ICB	K				-0.1034		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
53	1000	2			ICB	LA				-0.0031		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
54	1000	2			ICB	LI				0.0013		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
55	1000	2			ICB	MG				0.0020		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
56	1000	2			ICB	MN				-0.0013		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
57	1000	2			ICB	MO				0.0034		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
58	1000	2			ICB	NA				-0.0349		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
59	1000	2			ICB	ND				-0.0186		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
60	1000	2			ICB	NI				0.0020		1.0000	04/28/95	10:01	dks	0.02	@ICP-QC			
61	1000	2			ICB	P				-0.0078		1.0000	04/28/95	10:01	dks	0.2	@ICP-QC			
62	1000	2			ICB	PB				-0.0085		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
63	1000	2			ICB	S				0.0098		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
64	1000	2			ICB	SB				0.0246		1.0000	04/28/95	10:01	dks	0.2	@ICP-QC			
65	1000	2			ICB	SE				0.0087		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
66	1000	2			ICB	SI				-0.0088		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
67	1000	2			ICB	SM				-0.0881		1.0000	04/28/95	10:01	dks	0.1	@ICP-QC			
68	1000	2			ICB	SR				0.0013		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
69	1000	2			ICB	TI				-0.0006		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
70	1000	2			ICB	TL				-0.1203		1.0000	04/28/95	10:01	dks	0.2	@ICP-QC			
71	1000	2			ICB	U				-0.2513		1.0000	04/28/95	10:01	dks	0.4	@ICP-QC			
72	1000	2			ICB	V				-0.0029		1.0000	04/28/95	10:01	dks	0.05	@ICP-QC			
73	1000	2			ICB	ZN				0.0017		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
74	1000	2			ICB	ZR				-0.0054		1.0000	04/28/95	10:01	dks	0.01	@ICP-QC			
75	1000	3			ICSA	AG				0.0030		1.0000	04/28/95	10:04	dks	0.01	@ICP-QC			
76	1000	3			ICSA	AL				208.1306		1.0000	04/28/95	10:04	dks	0.05	@ICP-QC			
77	1000	3			ICSA	AS				0.0122		1.0000	04/28/95	10:04	dks	0.05	@ICP-QC			
78	1000	3			ICSA	B				-0.0527		1.0000	04/28/95	10:04	dks	0.05	@ICP-QC			
79	1000	3			ICSA	BA				-0.0001		1.0000	04/28/95	10:04	dks	0.05	@ICP-QC			
80	1000	3			ICSA	BE				0.0026		1.0000	04/28/95	10:04	dks	0.006	@ICP-QC			
81	1000	3			ICSA	BI				0.0045		1.0000	04/28/95	10:04	dks	0.1	@ICP-QC			
82	1000	3			ICSA	CA				19.0884		1.0000	04/28/95	10:04	dks	0.1	@ICP-QC			
83	1000	3			ICSA	CD				0.0144		1.0000	04/28/95	10:04	dks	0.01	@ICP-QC			
84	1000	3			ICSA	CE				-0.0189		1.0000	04/28/95	10:04	dks	0.1	@ICP-QC			
85	1000	3			ICSA	CO				0.0038		1.0000	04/28/95	10:04	dks	0.02	@ICP-QC			
86	1000	3			ICSA	CR				-0.0104		1.0000	04/28/95	10:04	dks	0.01	@ICP-QC			
87	1000	3			ICSA	CU				-0.0183		1.0000	04/28/95	10:04	dks	0.01	@ICP-Q			

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
123	1000	4			ICSB	CR				0.4980		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
124	1000	4			ICSB	CU				0.4883		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
125	1000	4			ICSB	FE				149.2184		1.0000	04/28/95	10:07	dks	0.05	@ICP-QC			
126	1000	4			ICSB	K				-0.1355		1.0000	04/28/95	10:07	dks	0.3	@ICP-QC			
127	1000	4			ICSB	LA				0.0103		1.0000	04/28/95	10:07	dks	0.05	@ICP-QC			
128	1000	4			ICSB	LI				0.9532		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
129	1000	4			ICSB	MG				10.3458		1.0000	04/28/95	10:07	dks	0.1	@ICP-QC			
130	1000	4			ICSB	MN				0.5099		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
131	1000	4			ICSB	MO				0.0013		1.0000	04/28/95	10:07	dks	0.05	@ICP-QC			
132	1000	4			ICSB	NA				193.8754		1.0000	04/28/95	10:07	dks	0.1	@ICP-QC			
133	1000	4			ICSB	NO				-0.0205		1.0000	04/28/95	10:07	dks	0.2	@ICP-QC			
134	1000	4			ICSB	NI				0.9300		1.0000	04/28/95	10:07	dks	0.02	@ICP-QC			
135	1000	4			ICSB	P				0.0038		1.0000	04/28/95	10:07	dks	0.1	@ICP-QC			
136	1000	4			ICSB	PG				1.0009		1.0000	04/28/95	10:07	dks	0.05	@ICP-QC			
137	1000	4			ICSB	S				0.1584		1.0000	04/28/95	10:07	dks	0.2	@ICP-QC			
138	1000	4			ICSB	SB				0.0161		1.0000	04/28/95	10:07	dks	0.1	@ICP-QC			
139	1000	4			ICSB	SE				0.0985		1.0000	04/28/95	10:07	dks	0.05	@ICP-QC			
140	1000	4			ICSB	SI				0.1020		1.0000	04/28/95	10:07	dks	0.1	@ICP-QC			
141	1000	4			ICSB	SM				-0.0406		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
142	1000	4			ICSB	SR				0.0012		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
143	1000	4			ICSB	TI				0.0003		1.0000	04/28/95	10:07	dks	0.2	@ICP-QC			
144	1000	4			ICSB	TL				-0.0639		1.0000	04/28/95	10:07	dks	0.4	@ICP-QC			
145	1000	4			ICSB	U				-0.0905		1.0000	04/28/95	10:07	dks	0.05	@ICP-QC			
146	1000	4			ICSB	V				0.4944		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
147	1000	4			ICSB	ZN				0.9938		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
148	1000	4			ICSB	ZR				-0.0045		1.0000	04/28/95	10:07	dks	0.01	@ICP-QC			
149	1000	5	895T000545		LI-D-01					6.4948	6.5271	401.0000	04/28/95	10:22	dks	0.01	@ICP-D03			
150	1000	6	895T000545		DUP	LI-D-01				401.0	393.7805	401.0000	04/28/95	10:26	dks	0.01	@ICP-D03			
151	1000	7	895T000545_A		SPK	LI-D-01						401.0000	04/28/95	10:30	dks	0.01	@ICP-QC			
152	1000	8			CCV	AG						1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
153	1000	8			CCV	AL				4.9884		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
154	1000	8			CCV	AS				5.0772		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
155	1000	8			CCV	B				5.0192		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
156	1000	8			CCV	BA				5.1368		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
157	1000	8			CCV	BE				5.0773		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
158	1000	8			CCV	BI				5.3082		1.0000	04/28/95	10:37	dks	0.005	@ICP-QC			
159	1000	8			CCV	CA				5.0173		1.0000	04/28/95	10:37	dks	0.1	@ICP-QC			
160	1000	8			CCV	CD				5.1501		1.0000	04/28/95	10:37	dks	0.1	@ICP-QC			
161	1000	8			CCV	CE				5.1532		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
162	1000	8			CCV	CO				4.8832		1.0000	04/28/95	10:37	dks	0.02	@ICP-QC			
163	1000	8			CCV	CR				5.1365		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
164	1000	8			CCV	CU				5.1407		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
165	1000	8			CCV	FE				5.1439		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
166	1000	8			CCV	K				5.1990		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
167	1000	8			CCV	LA				5.1882		1.0000	04/28/95	10:37	dks	0.3	@ICP-QC			
168	1000	8			CCV	LI				5.1011		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
169	1000	8			CCV	MG				5.1111		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
170	1000	8			CCV	MN				5.0596		1.0000	04/28/95	10:37	dks	0.1	@ICP-QC			
171	1000	8			CCV	MO				5.1304		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
172	1000	8			CCV	NA				5.0857		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
173	1000	8			CCV	NO				5.1620		1.0000	04/28/95	10:37	dks	0.1	@ICP-QC			
174	1000	8			CCV	NI				5.2424		1.0000	04/28/95	10:37	dks	0.2	@ICP-QC			
175	1000	8			CCV	P				5.1102		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
176	1000	8			CCV	PG				4.9913		1.0000	04/28/95	10:37	dks	0.2	@ICP-QC			
177	1000	8			CCV	S				5.1384		1.0000	04/28/95	10:37	dks	0.1	@ICP-QC			
178	1000	8			CCV	SB				4.0710		1.0000	04/28/95	10:37	dks	0.08	@ICP-QC			
179	1000	8			CCV	SE				4.7648		1.0000	04/28/95	10:37	dks	0.2	@ICP-QC			
180	1000	8			CCV	SI				5.3741		1.0000	04/28/95	10:37	dks	0.1	@ICP-QC			
181	1000	8			CCV	SM				4.8895		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
182	1000	8			CCV	SR				4.7393		1.0000	04/28/95	10:37	dks	0.1	@ICP-QC			
183	1000	8			CCV	TI				5.0384		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
184	1000	8			CCV	TL				4.9313		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
185	1000	8			CCV	U				4.9703		1.0000	04/28/95	10:37	dks	0.2	@ICP-QC			
186	1000	8			CCV	V				9.8432		1.0000	04/28/95	10:37	dks	0.4	@ICP-QC			
187	1000	8			CCV	ZN				5.0248		1.0000	04/28/95	10:37	dks	0.05	@ICP-QC			
188	1000	8			CCV	ZR				5.0755		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
189	1000	8			CCB	AG				5.0390		1.0000	04/28/95	10:37	dks	0.01	@ICP-QC			
190	1000	8			CCB	AL				0.0059		1.0000	04/28/95	10:42	dks	0.01	@ICP-QC			
191	1000	8			CCB	AS				0.0078		1.0000	04/28/95	10:42	dks	0.05	@ICP-QC			
192	1000	8			CCB	B				0.0083		1.0000	04/28/95	10:42	dks	0.05	@ICP-QC			
193	1000	8			CCB	BA				0.0033		1.0000	04/28/95	10:42	dks	0.05	@ICP-QC			
194	1000	8			CCB	BE				0.0038		1.0000	04/28/95	10:42	dks	0.005	@ICP-QC			
195	1000	8			CCB	BI				0.0030		1.0000	04/28/95	10:42	dks	0.1	@ICP-QC			
196	1000	8			CCB	CA				0.0062		1.0000	04/28/95	10:42	dks	0.1	@ICP-QC			
197	1000	8			CCB	CD				0.0032		1.0000	04/28/95	10:42	dks	0.01	@ICP-QC			
198	1000	8			CCB	CE				0.0197		1.0000	04/28/95	10:42	dks	0.1	@ICP-QC			
199	1000	8			CCB	CO				-0.0009		1.0000	04/28/95	10:42	dks	0.02	@ICP-QC			
200	1000	8			CCB	CR				0.0016		1.0000	04/28/95	10:42	dks	0.01	@ICP-QC			
201	1000	8			CCB	CU				-0.0002		1.0000	04/28/95	10:42	dks	0.01	@ICP-QC			
202	1000	8			CCB	FE				0.0148		1.0000	04/28/95	10:42	dks	0.05	@ICP-QC			
203	1000	8			CCB	K				-0.0543		1.0000	04/28/95	10:42	dks	0.3	@ICP-QC			
204	1000	8			CCB	LA				-0.0023		1.0000	04/28/95	10:42	dks	0.05	@ICP-QC			
205	1000	8			CCB	LI				0.0033		1.0000	04/28/95	10:42	dks	0.01	@ICP-QC			
206	1000	8			CCB	MG				0.0057	</									

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10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10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ICP MACRO

ICP MACRO																				
OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
357	1000	10			CCB	SE				0.0114		1.0000	04/28/95	11:19	dka	0.1	@ICP-QC			
358	1000	10			CCB	SI				0.0017		1.0000	04/28/95	11:19	dka	0.05	@ICP-QC			
359	1000	10			CCB	SM				-0.0154		1.0000	04/28/95	11:19	dka	0.1	@ICP-QC			
370	1000	10			CCB	SR				0.0014		1.0000	04/28/95	11:19	dka	0.01	@ICP-QC			
371	1000	10			CCB	TI				0.0008		1.0000	04/28/95	11:19	dka	0.01	@ICP-QC			
372	1000	10			CCB	TL				-0.0307		1.0000	04/28/95	11:19	dka	0.2	@ICP-QC			
373	1000	10			CCB	U				-0.0591		1.0000	04/28/95	11:19	dka	0.4	@ICP-QC			
374	1000	10			CCB	V				0.0000		1.0000	04/28/95	11:19	dka	0.05	@ICP-QC			
375	1000	10			CCB	ZN				0.0024		1.0000	04/28/95	11:19	dka	0.01	@ICP-QC			
376	1000	10			CCB	ZR				-0.0003		1.0000	04/28/95	11:19	dka	0.01	@ICP-QC			

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04/28/95

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105/4/95

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LABCORE Data Entry Template for Worklist# 1280

Analyst: JK Sato Instrument: ICP01 Book# 418489

Method: LA-505-151 Rev/Mod 1.2

Worklist Comment: ICP U-201 FUSION

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPBLK	<u>5-3-95</u> <u>QRL</u>			@ICP-F03	SOLID		
6	SAMPLE	S95T000537	0	F	@ICP-F03	SOLID	95000029	U-201
		Analytes Requested: LI-F-01						
7	DUP	S95T000537	0	F	@ICP-F03	SOLID		
8	SPK	S95T000537	0	F	@ICP-F03	SOLID		
	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T000541	0	F	@ICP-F03	SOLID	95000029	U-201
		Analytes Requested: LI-F-01						
12	DUP	S95T000541	0	F	@ICP-F03	SOLID		
13	SPK	S95T000541	0	F	@ICP-F03	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Data Entry Comments:

SP 05/08/95

JK Sato

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1280

S Type	Sample#	R A	Test	Matrix	Group#	Project
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Final page for worklist # 1280

JK *[Signature]* 05-03-95
Analyst Signature Date

Analyst Signature Date

Prepbkark 1-9 ml

S95T000537-L	.5016g in 250 ml	1-9-1-4	(250x50)/.5016 = 24920
S95T000537	.5016g in 250	1-9	(250x10)/.5016 = 4984
S95T000537-D	.5015g in 250	1-9	(250x10)/.5015 = 4985
S95T000537-Q	.5016g in 250	1-9	(250x10)/.5016 = 4984 1ml sample + 2ml SST5 + 7ml HNO3
S95T000541-L	.5065g in 250 ml	1-9-1-4	(250x50)/.5065 = 24679
S95T000541	.5065g in 250	1-9	(250x10)/.5065 = 4936
S95T000541-D	.5067g in 250	1-9	(250x10)/.5067 = 4934
S95T000541-Q	.5065g in 250	1-9	(250x10)/.5065 = 4936

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

1280	1	ICV	AG	4.6361	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	AL	5.0213	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	AS	4.9471	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	B	4.9982	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	BA	4.9984	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	BE	5.1672	1	5/3/95	13:16	dks	0.005	@ICP-QC
1280	1	ICV	BI	5.0007	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	CA	5.0152	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	CD	4.9988	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	CE	5.0035	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	CO	5.0635	1	5/3/95	13:16	dks	0.02	@ICP-QC
1280	1	ICV	CR	4.8848	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	CU	5.0401	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	FE	4.9872	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	K	5.2400	1	5/3/95	13:16	dks	0.3	@ICP-QC
1280	1	ICV	LA	4.8541	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	LI	5.1241	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	MG	4.8782	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	MN	4.8787	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	MO	4.9989	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	NA	5.032	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	ND	5.0843	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	NI	4.9795	1	5/3/95	13:16	dks	0.02	@ICP-QC
1280	1	ICV	P	5.0850	1	5/3/95	13:16	dks	0.2	@ICP-QC
1280	1	ICV	PB	5.0042	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	S	5.2016	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	SB	4.7845	1	5/3/95	13:16	dks	0.2	@ICP-QC
1280	1	ICV	SE	5.2999	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	SI	4.8465	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	SM	4.8576	1	5/3/95	13:16	dks	0.1	@ICP-QC
1280	1	ICV	SR	4.861	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	TI	4.8348	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	TL	4.8742	1	5/3/95	13:16	dks	0.2	@ICP-QC
1280	1	ICV	U	0.7418	1	5/3/95	13:16	dks	0.4	@ICP-QC
1280	1	ICV	V	4.891	1	5/3/95	13:16	dks	0.05	@ICP-QC
1280	1	ICV	ZN	5.0833	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	1	ICV	ZR	4.9102	1	5/3/95	13:16	dks	0.01	@ICP-QC
1280	2	ICB	AG	0.0123	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	AL	0.0088	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	AS	0.0084	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	B	0.0058	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	BA	0.003	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	BE	0.0037	1	5/3/95	13:21	dks	0.005	@ICP-QC
1280	2	ICB	BI	-0.024	1	5/3/95	13:21	dks	0.1	@ICP-QC
1280	2	ICB	CA	0.0048	1	5/3/95	13:21	dks	0.1	@ICP-QC
1280	2	ICB	CD	0.004	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	CE	0.0149	1	5/3/95	13:21	dks	0.1	@ICP-QC
1280	2	ICB	CO	0.0103	1	5/3/95	13:21	dks	0.02	@ICP-QC
1280	2	ICB	CR	0.0088	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	CU	0.0014	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	FE	0.0045	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	K	0.1262	1	5/3/95	13:21	dks	0.3	@ICP-QC
1280	2	ICB	LA	0.0029	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	LI	0.0032	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	MG	0.0031	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	MN	0.0024	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	MO	0.0019	1	5/3/95	13:21	dks	0.1	@ICP-QC
1280	2	ICB	NA	-0.0007	1	5/3/95	13:21	dks	0.1	@ICP-QC
1280	2	ICB	ND	0.0036	1	5/3/95	13:21	dks	0.02	@ICP-QC
1280	2	ICB	NI	0.0014	1	5/3/95	13:21	dks	0.2	@ICP-QC
1280	2	ICB	P	-0.018	1	5/3/95	13:21	dks	0.1	@ICP-QC
1280	2	ICB	PB	0.0288	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	S	0.0041	1	5/3/95	13:21	dks	0.2	@ICP-QC
1280	2	ICB	SB	0.0139	1	5/3/95	13:21	dks	0.1	@ICP-QC
1280	2	ICB	SE	0.0916	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	SI	-0.0054	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	SM	0.0079	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	SR	0.003	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	TI	0.0017	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	TL	0.0131	1	5/3/95	13:21	dks	0.2	@ICP-QC
1280	2	ICB	U	0.0289	1	5/3/95	13:21	dks	0.4	@ICP-QC
1280	2	ICB	V	0.0018	1	5/3/95	13:21	dks	0.05	@ICP-QC
1280	2	ICB	ZN	0.0004	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	2	ICB	ZR	0.0033	1	5/3/95	13:21	dks	0.01	@ICP-QC
1280	3	ICSA	AG	0.0184	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	AL	208.1478	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	AS	0.0252	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	B	-0.0461	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	BA	0.0013	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	BE	0.0045	1	5/3/95	13:23	dks	0.005	@ICP-QC
1280	3	ICSA	BI	-0.0271	1	5/3/95	13:23	dks	0.1	@ICP-QC
1280	3	ICSA	CA	18.8857	1	5/3/95	13:23	dks	0.1	@ICP-QC
1280	3	ICSA	CD	0.0183	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	CE	0	1	5/3/95	13:23	dks	0.1	@ICP-QC
1280	3	ICSA	CO	0.0093	1	5/3/95	13:23	dks	0.02	@ICP-QC
1280	3	ICSA	CR	-0.0055	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	CU	-0.0149	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	FE	145.3086	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	K	0.0713	1	5/3/95	13:23	dks	0.3	@ICP-QC
1280	3	ICSA	LA	0.0141	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	LI	0.0018	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	MG	18.7881	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	MN	0.0106	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	MO	-0.0031	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	NA	192.8438	1	5/3/95	13:23	dks	0.1	@ICP-QC
1280	3	ICSA	ND	-0.0018	1	5/3/95	13:23	dks	0.02	@ICP-QC
1280	3	ICSA	NI	-0.0592	1	5/3/95	13:23	dks	0.2	@ICP-QC
1280	3	ICSA	P	0.0093	1	5/3/95	13:23	dks	0.1	@ICP-QC
1280	3	ICSA	PB	0.0546	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	S	0.1753	1	5/3/95	13:23	dks	0.2	@ICP-QC
1280	3	ICSA	SB	-0.0119	1	5/3/95	13:23	dks	0.1	@ICP-QC
1280	3	ICSA	SE	0.1722	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	SI	0.0637	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	SM	0.0084	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	SR	0.0015	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	TI	0.0004	1	5/3/95	13:23	dks	0.2	@ICP-QC
1280	3	ICSA	TL	-0.0386	1	5/3/95	13:23	dks	0.4	@ICP-QC
1280	3	ICSA	U	0.053	1	5/3/95	13:23	dks	0.05	@ICP-QC
1280	3	ICSA	V	-0.0027	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	ZN	0.0256	1	5/3/95	13:23	dks	0.01	@ICP-QC
1280	3	ICSA	ZR	0	1	5/3/95	13:26	dks	0.01	@ICP-QC
1280	4	ICSA	AG	0.9965	1	5/3/95	13:26	dks	0.05	@ICP-QC
1280	4	ICSA	AL	204.3021	1	5/3/95	13:26	dks	0.05	@ICP-QC
1280	4	ICSA	AS	0.0272	1	5/3/95	13:26	dks	0.05	@ICP-QC
1280	4	ICSA	B	-0.043	1	5/3/95	13:26	dks	0.05	@ICP-QC
1280	4	ICSA	BA	0.4827	1	5/3/95	13:26	dks	0.05	@ICP-QC
1280	4	ICSA	BE	0.4864	1	5/3/95	13:26	dks	0.005	@ICP-QC
1280	4	ICSA	BI	-0.0193	1	5/3/95	13:26	dks	0.1	@ICP-QC

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1280	4	ICSA8	CA	18.4807	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	CD	0.9919	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	CE	0.0521	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	CO	0.4981	1	5/3/95	13:28	dca	0.02	@ICP-QC
1280	4	ICSA8	CR	0.4877	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	CU	0.4715	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	FE	145.5506	1	5/3/95	13:28	dca	0.05	@ICP-QC
1280	4	ICSA8	K	0.1545	1	5/3/95	13:28	dca	0.3	@ICP-QC
1280	4	ICSA8	LA	0.0128	1	5/3/95	13:28	dca	0.05	@ICP-QC
1280	4	ICSA8	LI	0.0249	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	MG	18.8787	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	MI	0.5013	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	MO	-0.0028	1	5/3/95	13:28	dca	0.05	@ICP-QC
1280	4	ICSA8	NA	188.427	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	NO	-0.0087	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	NI	0.9122	1	5/3/95	13:28	dca	0.02	@ICP-QC
1280	4	ICSA8	P	0.0247	1	5/3/95	13:28	dca	0.2	@ICP-QC
1280	4	ICSA8	PS	1.0319	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	S	0.1541	1	5/3/95	13:28	dca	0.05	@ICP-QC
1280	4	ICSA8	SB	0.0275	1	5/3/95	13:28	dca	0.2	@ICP-QC
1280	4	ICSA8	SE	0.1512	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	SI	0.1087	1	5/3/95	13:28	dca	0.05	@ICP-QC
1280	4	ICSA8	SM	0.0688	1	5/3/95	13:28	dca	0.1	@ICP-QC
1280	4	ICSA8	SR	0.0012	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	TI	0.0019	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	TL	0.0708	1	5/3/95	13:28	dca	0.2	@ICP-QC
1280	4	ICSA8	U	0.2554	1	5/3/95	13:28	dca	0.4	@ICP-QC
1280	4	ICSA8	V	0.4988	1	5/3/95	13:28	dca	0.05	@ICP-QC
1280	4	ICSA8	ZN	0.9985	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	4	ICSA8	ZR	0.005	1	5/3/95	13:28	dca	0.01	@ICP-QC
1280	5	PREPBLKARL	AG-F-01	0.0088	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	AL-F-01	1.2088	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	AS-F-01	0.0874	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	B-F-01	-0.0132	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	BA-F-01	0.0127	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	BE-F-01	0.0134	10	5/3/95	13:33	dca	0.005	@ICP-F03
1280	5	PREPBLKARL	BL-F-01	-0.1987	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	CA-F-01	2.011	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	CO-F-01	0.0031	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	CE-F-01	0.5448	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	CO-F-01	0.0463	10	5/3/95	13:33	dca	0.02	@ICP-F03
1280	5	PREPBLKARL	CR-F-01	0.0347	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	CU-F-01	0.1994	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	FE-F-01	1.17	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	K-F-01	8819.076	10	5/3/95	13:33	dca	0.3	@ICP-F03
1280	5	PREPBLKARL	LA-F-01	-0.0435	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	LI-F-01	-0.001	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	MG-F-01	0.1528	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	MN-F-01	0.0608	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	MO-F-01	-0.014	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	NA-F-01	4.3668	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	ND-F-01	-0.1398	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	NI-F-01	2.6142	10	5/3/95	13:33	dca	0.02	@ICP-F03
1280	5	PREPBLKARL	P-F-01	-0.2027	10	5/3/95	13:33	dca	0.2	@ICP-F03
1280	5	PREPBLKARL	PS-F-01	0.0618	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	S-F-01	0.005	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	SB-F-01	-0.0346	10	5/3/95	13:33	dca	0.2	@ICP-F03
1280	5	PREPBLKARL	SE-F-01	0.8454	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	SI-F-01	0.3188	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	SM-F-01	-0.0855	10	5/3/95	13:33	dca	0.1	@ICP-F03
1280	5	PREPBLKARL	SR-F-01	0.01	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	TI-F-01	-0.0072	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	TL-F-01	-0.2022	10	5/3/95	13:33	dca	0.2	@ICP-F03
1280	5	PREPBLKARL	U-F-01	-0.2189	10	5/3/95	13:33	dca	0.4	@ICP-F03
1280	5	PREPBLKARL	V-F-01	0.0002	10	5/3/95	13:33	dca	0.05	@ICP-F03
1280	5	PREPBLKARL	ZN-F-01	0.0209	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	5	PREPBLKARL	ZR-F-01	0.0033	10	5/3/95	13:33	dca	0.01	@ICP-F03
1280	6	896TD000537	LI-F-01	49.8405	4984.051	5/3/95	13:41	dca	0.01	@ICP-F03
1280	7	896TD000537	LI-F-01	<49.8405	4985.045	5/3/95	13:45	dca	0.01	@ICP-F03
1280	8	896TD000537_A	LI-F-01	4984.051	4984.051	5/3/95	13:49	dca	0.01	@ICP-F03
1280	9	CCV	AG	3.7329	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	AL	5.13	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	AS	5.0454	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	B	5.07	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	BA	5.0345	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	BE	5.2252	1	5/3/95	13:56	dca	0.005	@ICP-QC
1280	9	CCV	BI	5.0186	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	CA	5.0842	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	CD	5.065	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	CE	5.0252	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	CO	5.1324	1	5/3/95	13:56	dca	0.02	@ICP-QC
1280	9	CCV	CR	5.0553	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	CU	5.0908	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	FE	5.0637	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	K	8.4529	1	5/3/95	13:56	dca	0.3	@ICP-QC
1280	9	CCV	LA	5.0242	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	LI	5.1803	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	MG	5.0451	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	MN	5.041	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	MO	5.0819	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	NA	5.1284	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	ND	5.1037	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	NI	5.035	1	5/3/95	13:56	dca	0.02	@ICP-QC
1280	9	CCV	P	5.1893	1	5/3/95	13:56	dca	0.2	@ICP-QC
1280	9	CCV	PS	5.0716	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	S	5.2982	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	SB	4.8219	1	5/3/95	13:56	dca	0.2	@ICP-QC
1280	9	CCV	SE	5.38	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	SI	5.2818	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	SM	4.9846	1	5/3/95	13:56	dca	0.1	@ICP-QC
1280	9	CCV	SR	5.007	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	TI	4.8818	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	TL	4.9145	1	5/3/95	13:56	dca	0.2	@ICP-QC
1280	9	CCV	U	9.8005	1	5/3/95	13:56	dca	0.4	@ICP-QC
1280	9	CCV	V	4.8506	1	5/3/95	13:56	dca	0.05	@ICP-QC
1280	9	CCV	ZN	5.1102	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	9	CCV	ZR	4.936	1	5/3/95	13:56	dca	0.01	@ICP-QC
1280	10	CCB	AG	0.3078	1	5/3/95	14:01	dca	0.01	@ICP-QC
1280	10	CCB	AL	0.0105	1	5/3/95	14:01	dca	0.05	@ICP-QC
1280	10	CCB	AS	0.0111	1	5/3/95	14:01	dca	0.05	@ICP-QC
1280	10	CCB	B	0.0041	1	5/3/95	14:01	dca	0.05	@ICP-QC
1280	10	CCB	BA	0.0031	1	5/3/95	14:01	dca	0.05	@ICP-QC
1280	10	CCB	BE	0.0031	1	5/3/95	14:01	dca	0.005	@ICP-QC
1280	10	CCB	BI	-0.0141	1	5/3/95	14:01	dca	0.1	@ICP-QC
1280	10	CCB	CA	0.0053	1	5/3/95	14:01	dca	0.1	@ICP-QC
1280	10	CCB	CD	0.004	1	5/3/95	14:01	dca	0.01	@ICP-QC
1280	10	CCB	CE	0.0124	1	5/3/95	14:01	dca	0.1	@ICP-QC
1280	10	CCB	CO	0.0075	1	5/3/95	14:01	dca	0.02	@ICP-QC

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1280	10	CCB	CR	0.0058	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	CU	0.0011	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	FE	0.0105	1 5/3/95	14:01	dks	0.05	@ICP-QC
1280	10	CCB	K	0.7808	1 5/3/95	14:01	dks	0.3	@ICP-QC
1280	10	CCB	LA	0.0044	1 5/3/95	14:01	dks	0.05	@ICP-QC
1280	10	CCB	LI	0.0028	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	MG	0.0035	1 5/3/95	14:01	dks	0.1	@ICP-QC
1280	10	CCB	MM	0.0026	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	MO	-0.0003	1 5/3/95	14:01	dks	0.05	@ICP-QC
1280	10	CCB	NA	0.0175	1 5/3/95	14:01	dks	0.1	@ICP-QC
1280	10	CCB	ND	0	1 5/3/95	14:01	dks	0.1	@ICP-QC
1280	10	CCB	NI	0.0007	1 5/3/95	14:01	dks	0.02	@ICP-QC
1280	10	CCB	P	-0.0037	1 5/3/95	14:01	dks	0.2	@ICP-QC
1280	10	CCB	PB	0.0202	1 5/3/95	14:01	dks	0.1	@ICP-QC
1280	10	CCB	S	0.0031	1 5/3/95	14:01	dks	0.05	@ICP-QC
1280	10	CCB	SB	0.0098	1 5/3/95	14:01	dks	0.2	@ICP-QC
1280	10	CCB	SE	0.001	1 5/3/95	14:01	dks	0.1	@ICP-QC
1280	10	CCB	SI	0.0002	1 5/3/95	14:01	dks	0.05	@ICP-QC
1280	10	CCB	SM	0.0298	1 5/3/95	14:01	dks	0.1	@ICP-QC
1280	10	CCB	SR	0.0029	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	TI	0.0021	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	TL	0.0352	1 5/3/95	14:01	dks	0.2	@ICP-QC
1280	10	CCB	U	0.0072	1 5/3/95	14:01	dks	0.4	@ICP-QC
1280	10	CCB	V	0.0029	1 5/3/95	14:01	dks	0.05	@ICP-QC
1280	10	CCB	ZN	-0.0005	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	ZR	0.0047	1 5/3/95	14:01	dks	0.01	@ICP-QC
1280	10	CCB	LF-F-01	40.3583	4935.834 5/3/95	14:00	dks	0.01	@ICP-F03
1280	11	995T000541	LF-F-01	<40.3583	4935.834 5/3/95	14:13	dks	0.01	@ICP-F03
1280	12	995T000541	LF-F-01	4468.581	4935.834 5/3/95	14:16	dks	0.01	@ICP-F03
1280	13	995T000541_A	LF-F-01	0.0528	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	DUP	AG	200.0017	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	SPK	AL	0.0289	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	AS	-0.0433	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	B	0.0005	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	BA	0.0034	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	BE	-0.0188	1 5/3/95	14:28	dks	0.005	@ICP-QC
1280	14	ICSA	BI	18.4949	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	CA	0.0132	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	CD	0.0332	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	CE	0.0121	1 5/3/95	14:28	dks	0.02	@ICP-QC
1280	14	ICSA	CO	-0.0052	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	CR	-0.0171	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	CU	144.3342	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	FE	0.8501	1 5/3/95	14:28	dks	0.3	@ICP-QC
1280	14	ICSA	K	0.0117	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	LA	0.0000	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	LI	18.8889	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	MG	0.0084	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	MM	-0.0087	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	MO	188.8487	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	NA	-0.0140	1 5/3/95	14:28	dks	0.02	@ICP-QC
1280	14	ICSA	ND	-0.0579	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	NI	-0.0074	1 5/3/95	14:28	dks	0.2	@ICP-QC
1280	14	ICSA	P	0.0361	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	PB	0.1773	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	S	0.0111	1 5/3/95	14:28	dks	0.2	@ICP-QC
1280	14	ICSA	SB	0.1566	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	SE	0.0807	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	SI	0.019	1 5/3/95	14:28	dks	0.1	@ICP-QC
1280	14	ICSA	SM	0.0005	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	SR	-0.0001	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	TI	-0.012	1 5/3/95	14:28	dks	0.2	@ICP-QC
1280	14	ICSA	TL	0.0889	1 5/3/95	14:28	dks	0.4	@ICP-QC
1280	14	ICSA	U	-0.004	1 5/3/95	14:28	dks	0.05	@ICP-QC
1280	14	ICSA	V	0.0961	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	ZN	0	1 5/3/95	14:28	dks	0.01	@ICP-QC
1280	14	ICSA	ZR	0.9715	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	AG	205.3500	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	AL	0.0231	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	AS	-0.0437	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	B	0.4809	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	BA	0.4819	1 5/3/95	14:32	dks	0.005	@ICP-QC
1280	15	ICSA	BE	-0.055	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	BI	18.4096	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	CA	0.9850	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	CD	-0.027	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	CE	0.4825	1 5/3/95	14:32	dks	0.02	@ICP-QC
1280	15	ICSA	CO	0.4857	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	CR	0.4862	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	CU	144.527	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	FE	0.8156	1 5/3/95	14:32	dks	0.3	@ICP-QC
1280	15	ICSA	K	0.0088	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	LA	0.8288	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	LI	18.8084	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	MG	0.408	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	MM	-0.0047	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	MO	187.1043	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	NA	-0.0121	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	ND	0.8859	1 5/3/95	14:32	dks	0.02	@ICP-QC
1280	15	ICSA	NI	-0.0168	1 5/3/95	14:32	dks	0.2	@ICP-QC
1280	15	ICSA	P	1.0125	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	PB	0.1823	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	S	0.0014	1 5/3/95	14:32	dks	0.2	@ICP-QC
1280	15	ICSA	SB	0.1538	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	SE	0.1052	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	SI	0.0457	1 5/3/95	14:32	dks	0.1	@ICP-QC
1280	15	ICSA	SM	0.0005	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	SR	0.001	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	TI	0.0454	1 5/3/95	14:32	dks	0.2	@ICP-QC
1280	15	ICSA	TL	0.2012	1 5/3/95	14:32	dks	0.4	@ICP-QC
1280	15	ICSA	U	0.4825	1 5/3/95	14:32	dks	0.05	@ICP-QC
1280	15	ICSA	V	0.9951	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	ZN	0.0033	1 5/3/95	14:32	dks	0.01	@ICP-QC
1280	15	ICSA	ZR	4.7965	1 5/3/95	14:46	dks	0.01	@ICP-QC
1280	16	CCV	AG	4.9822	1 5/3/95	14:46	dks	0.05	@ICP-QC
1280	16	CCV	AL	4.8535	1 5/3/95	14:46	dks	0.05	@ICP-QC
1280	16	CCV	AS	4.9351	1 5/3/95	14:46	dks	0.05	@ICP-QC
1280	16	CCV	B	4.8623	1 5/3/95	14:46	dks	0.05	@ICP-QC
1280	16	CCV	BA	5.0509	1 5/3/95	14:46	dks	0.005	@ICP-QC
1280	16	CCV	BE	4.857	1 5/3/95	14:46	dks	0.1	@ICP-QC
1280	16	CCV	BI	4.8503	1 5/3/95	14:46	dks	0.1	@ICP-QC
1280	16	CCV	CA	4.9086	1 5/3/95	14:46	dks	0.01	@ICP-QC
1280	16	CCV	CD	4.7598	1 5/3/95	14:46	dks	0.1	@ICP-QC
1280	16	CCV	CE	4.9387	1 5/3/95	14:46	dks	0.02	@ICP-QC
1280	16	CCV	CO	4.9098	1 5/3/95	14:46	dks	0.01	@ICP-QC
1280	16	CCV	CR	4.9673	1 5/3/95	14:46	dks	0.01	@ICP-QC
1280	16	CCV	CU	4.9673	1 5/3/95	14:46	dks	0.05	@ICP-QC
1280	16	CCV	FE	4.988	1 5/3/95	14:46	dks	0.3	@ICP-QC
1280	16	CCV	K						

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1280	16	CCV	LA	4.9123	1 5/3/95	14:48	dkh	0.05	ICP-QC
1280	16	CCV	LI	4.9751	1 5/3/95	14:48	dkh	0.01	ICP-QC
1280	16	CCV	MG	4.8653	1 5/3/95	14:48	dkh	0.1	ICP-QC
1280	16	CCV	MN	4.8185	1 5/3/95	14:48	dkh	0.01	ICP-QC
1280	16	CCV	MO	4.8484	1 5/3/95	14:48	dkh	0.05	ICP-QC
1280	16	CCV	NA	4.9083	1 5/3/95	14:48	dkh	0.1	ICP-QC
1280	16	CCV	ND	5.0581	1 5/3/95	14:48	dkh	0.1	ICP-QC
1280	16	CCV	NI	4.8653	1 5/3/95	14:48	dkh	0.02	ICP-QC
1280	16	CCV	P	4.8803	1 5/3/95	14:48	dkh	0.2	ICP-QC
1280	16	CCV	PB	4.8581	1 5/3/95	14:48	dkh	0.1	ICP-QC
1280	16	CCV	S	5.0018	1 5/3/95	14:48	dkh	0.05	ICP-QC
1280	16	CCV	SB	4.8177	1 5/3/95	14:48	dkh	0.2	ICP-QC
1280	16	CCV	SE	5.1530	1 5/3/95	14:48	dkh	0.1	ICP-QC
1280	16	CCV	SI	4.7433	1 5/3/95	14:48	dkh	0.05	ICP-QC
1280	16	CCV	SM	4.8486	1 5/3/95	14:48	dkh	0.1	ICP-QC
1280	16	CCV	SR	4.8426	1 5/3/95	14:48	dkh	0.01	ICP-QC
1280	16	CCV	TI	4.7214	1 5/3/95	14:48	dkh	0.01	ICP-QC
1280	16	CCV	TL	4.8285	1 5/3/95	14:48	dkh	0.2	ICP-QC
1280	16	CCV	U	9.8388	1 5/3/95	14:48	dkh	0.4	ICP-QC
1280	16	CCV	V	4.8174	1 5/3/95	14:48	dkh	0.05	ICP-QC
1280	16	CCV	ZN	4.9448	1 5/3/95	14:48	dkh	0.01	ICP-QC
1280	16	CCV	ZR	4.8371	1 5/3/95	14:48	dkh	0.01	ICP-QC
1280	17	CCB	AG	0.0191	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	AL	-0.0087	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	AS	0.0123	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	B	0.0004	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	BA	0.0025	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	BE	0.0028	1 5/3/95	14:52	dkh	0.005	ICP-QC
1280	17	CCB	BI	-0.0015	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	CA	0.0081	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	CD	0.0011	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	CE	0.0439	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	CO	0.0102	1 5/3/95	14:52	dkh	0.02	ICP-QC
1280	17	CCB	CR	0.0008	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	CU	-0.0028	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	FE	0.0227	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	K	-0.0081	1 5/3/95	14:52	dkh	0.3	ICP-QC
1280	17	CCB	LA	0.0015	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	LI	0.0007	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	MG	0.0045	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	MN	0.0017	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	MO	-0.0043	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	NA	0.0065	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	ND	-0.0021	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	NI	-0.0019	1 5/3/95	14:52	dkh	0.02	ICP-QC
1280	17	CCB	P	-0.0041	1 5/3/95	14:52	dkh	0.2	ICP-QC
1280	17	CCB	PB	0.0239	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	S	0.0109	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	SB	-0.0190	1 5/3/95	14:52	dkh	0.2	ICP-QC
1280	17	CCB	SE	0.0089	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	SI	-0.0035	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	SM	0.0572	1 5/3/95	14:52	dkh	0.1	ICP-QC
1280	17	CCB	SR	0.0012	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	TI	0.0016	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	TL	0.0758	1 5/3/95	14:52	dkh	0.2	ICP-QC
1280	17	CCB	U	0.1974	1 5/3/95	14:52	dkh	0.4	ICP-QC
1280	17	CCB	V	0.0042	1 5/3/95	14:52	dkh	0.05	ICP-QC
1280	17	CCB	ZN	-0.0008	1 5/3/95	14:52	dkh	0.01	ICP-QC
1280	17	CCB	ZR	0.0059	1 5/3/95	14:52	dkh	0.01	ICP-QC

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LABCORE Data Entry Template for Worklist# 1281

Analyst: JK Seto Instrument: ICP01 Book# 418480

Method: LA-505-151 Rev/Mod D-2

Worklist Comment: ICP U-201 FUSION

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPBLKARL		@ICP-F03	SOLID		
6	SAMPLE	S95T000615 0 F	@ICP-F03	SOLID	95000029	U-201
	Analytes Requested: LI-F-01					
7	DUP	S95T000615 0 F	@ICP-F03	SOLID		
8	SPK	S95T000615 0 F	@ICP-F03	SOLID		
	CCV		@ICP-QC	QC		
10	CCB		@ICP-QC	QC		
11	SAMPLE	S95T000622 0 F	@ICP-F03	SOLID	95000029	U-201
	Analytes Requested: LI-F-01					
12	DUP	S95T000622 0 F	@ICP-F03	SOLID		
13	SPK	S95T000622 0 F	@ICP-F03	SOLID		
14	ICSA		@ICP-QC	QC		
15	ICSAB		@ICP-QC	QC		
16	CCV		@ICP-QC	QC		
17	CCB		@ICP-QC	QC		

Data Entry Comments:

80 05/08/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

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LABCORE Data Entry Template for Worklist# 1281

S Type	Sample#	R A Test	Matrix	Group#	Project
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Final page for worklist # 1281

D.K. L. A
05-04-95
Analyst Signature Date

Analyst Signature Date

PrepblKQVL 1-9 ml

595T000615-L	.4841 g in 250 ml	1-9-1-4	(250 x 50) / .4841 = 25715	
595T000615	.4841 g in 250	1-9	(250 x 10) / .4841 = 5143	
595T000615-D	.4844 g in 250	1-9	(250 x 10) / .4844 = 5138	
595T000615-Q	.4841 g in 250	1-9	(250 x 10) / .4841 = 5143	1 ml sample + 2 ml SST5 + 7 ml HNO ₃
595T000622-L	.4842 g in 250	1-9-1-4	(250 x 50) / .4842 = 25710	
595T000622	.4842 g in 250	1-9	(250 x 10) / .4842 = 5142	
595T000622-D	.4880 g in 250	1-9	(250 x 10) / .4880 = 5125	
595T000622-Q	.4842 g in 250	1-9	(250 x 10) / .4842 = 5142	1 ml sample + 2 ml SST5 + 7 ml HNO ₃

Data Entry Comments:

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1281	1			ICV	AG				4.8207			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
2	1281	1			ICV	AL				5.0725			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
3	1281	1			ICV	AS				5.0507			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
4	1281	1			ICV	B				5.1172			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
5	1281	1			ICV	BA				5.1152			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
6	1281	1			ICV	BE				5.3107			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
7	1281	1			ICV	BI				5.0551			1.0000	05/04/95	10:02	dks	0.0005	@ICP-QC		
8	1281	1			ICV	CA				5.1449			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
9	1281	1			ICV	CD				5.1184			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
10	1281	1			ICV	CE				5.0842			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
11	1281	1			ICV	CO				5.1508			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
12	1281	1			ICV	CR				5.0977			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
13	1281	1			ICV	CU				5.1898			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
14	1281	1			ICV	FE				5.1180			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
15	1281	1			ICV	K				4.5981			1.0000	05/04/95	10:02	dks	0.3	@ICP-QC		
16	1281	1			ICV	LA				5.0827			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
17	1281	1			ICV	LI				5.2054			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
18	1281	1			ICV	MG				5.0522			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
19	1281	1			ICV	MN				5.0845			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
20	1281	1			ICV	MO				5.0941			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
21	1281	1			ICV	NA				5.1280			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
22	1281	1			ICV	ND				5.2281			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
23	1281	1			ICV	NI				5.0880			1.0000	05/04/95	10:02	dks	0.02	@ICP-QC		
24	1281	1			ICV	P				5.1098			1.0000	05/04/95	10:02	dks	0.2	@ICP-QC		
25	1281	1			ICV	PB				5.0534			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
26	1281	1			ICV	S				5.0884			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
27	1281	1			ICV	SB				4.8158			1.0000	05/04/95	10:02	dks	0.2	@ICP-QC		
28	1281	1			ICV	SE				5.3042			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
29	1281	1			ICV	SI				4.8033			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
30	1281	1			ICV	SM				5.0298			1.0000	05/04/95	10:02	dks	0.1	@ICP-QC		
31	1281	1			ICV	SR				5.0755			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
32	1281	1			ICV	TI				4.9485			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
33	1281	1			ICV	TL				4.8552			1.0000	05/04/95	10:02	dks	0.2	@ICP-QC		
34	1281	1			ICV	U				9.7582			1.0000	05/04/95	10:02	dks	0.4	@ICP-QC		
35	1281	1			ICV	V				4.9940			1.0000	05/04/95	10:02	dks	0.05	@ICP-QC		
36	1281	1			ICV	ZN				5.0751			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
37	1281	1			ICV	ZR				5.0233			1.0000	05/04/95	10:02	dks	0.01	@ICP-QC		
38	1281	2			ICB	AG				0.0087			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
39	1281	2			ICB	AL				0.0104			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
40	1281	2			ICB	AS				0.0001			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
41	1281	2			ICB	B				0.0084			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
42	1281	2			ICB	BA				0.0053			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
43	1281	2			ICB	BE				0.0080			1.0000	05/04/95	10:09	dks	0.0005	@ICP-QC		
44	1281	2			ICB	BI				0.0278			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
45	1281	2			ICB	CA				0.0055			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
46	1281	2			ICB	CD				0.0057			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
47	1281	2			ICB	CE				0.0737			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
48	1281	2			ICB	CO				0.0029			1.0000	05/04/95	10:09	dks	0.02	@ICP-QC		
49	1281	2			ICB	CR				0.0088			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
50	1281	2			ICB	CU				0.0044			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
51	1281	2			ICB	FE				0.0040			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
52	1281	2			ICB	K				-0.5830			1.0000	05/04/95	10:09	dks	0.3	@ICP-QC		
53	1281	2			ICB	LA				0.0051			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
54	1281	2			ICB	LI				0.0082			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
55	1281	2			ICB	MG				0.0056			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
56	1281	2			ICB	MN				0.0029			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
57	1281	2			ICB	MO				0.0097			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
58	1281	2			ICB	NA				-0.0007			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
59	1281	2			ICB	ND				0.0115			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
60	1281	2			ICB	NI				-0.0003			1.0000	05/04/95	10:09	dks	0.02	@ICP-QC		
61	1281	2			ICB	P				0.0025			1.0000	05/04/95	10:09	dks	0.2	@ICP-QC		
62	1281	2			ICB	PB				0.0139			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
63	1281	2			ICB	S				-0.0040			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
64	1281	2			ICB	SB				-0.0188			1.0000	05/04/95	10:09	dks	0.2	@ICP-QC		
65	1281	2			ICB	SE				-0.0148			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
66	1281	2			ICB	SI				-0.0027			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
67	1281	2			ICB	SM				0.0017			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
68	1281	2			ICB	SR				0.0056			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
69	1281	2			ICB	TI				0.0045			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
70	1281	2			ICB	TL				-0.0204			1.0000	05/04/95	10:09	dks	0.2	@ICP-QC		
71	1281	2			ICB	U				-0.0228			1.0000	05/04/95	10:09	dks	0.4	@ICP-QC		
72	1281	2			ICB	V				0.0033			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
73	1281	2			ICB	ZN				0.0087			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
74	1281	2			ICB	ZR				0.0047			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
75	1281	3			ICSA	AG				0.0126			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
76	1281	3			ICSA	AL				210.2534			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
77	1281	3			ICSA	AS				0.0110			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
78	1281	3			ICSA	B				-0.0402			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
79	1281	3			ICSA	BA				0.0016			1.0000	05/04/95	10:09	dks	0.05	@ICP-QC		
80	1281	3			ICSA	BE				0.0045			1.0000	05/04/95	10:09	dks	0.0005	@ICP-QC		
81	1281	3			ICSA	BI				0.0349			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
82	1281	3			ICSA	CA				19.1934			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
83	1281	3			ICSA	CD				0.0158			1.0000	05/04/95	10:09	dks	0.01	@ICP-QC		
84	1281	3			ICSA	CE				0.0525			1.0000	05/04/95	10:09	dks	0.1	@ICP-QC		
85	1281	3			ICSA	CO				0.0029	</									

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
123	1281	4			ICBAS	CR				0.5221		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
124	1281	4			ICBAS	CU				0.4930		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
125	1281	4			ICBAS	FE				152.6017		1.0000	05/04/95	10:12	dkz	0.05	@ICP-QC			
126	1281	4			ICBAS	K				-0.4380		1.0000	05/04/95	10:12	dkz	0.3	@ICP-QC			
127	1281	4			ICBAS	LA				0.0172		1.0000	05/04/95	10:12	dkz	0.05	@ICP-QC			
128	1281	4			ICBAS	LI				0.9082		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
129	1281	4			ICBAS	MG				20.0385		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
130	1281	4			ICBAS	MM				0.5305		1.0000	05/04/95	10:12	dkz	0.05	@ICP-QC			
131	1281	4			ICBAS	MO				0.0050		1.0000	05/04/95	10:12	dkz	0.1	@ICP-QC			
132	1281	4			ICBAS	NA				194.3181		1.0000	05/04/95	10:12	dkz	0.05	@ICP-QC			
133	1281	4			ICBAS	ND				0.0080		1.0000	05/04/95	10:12	dkz	0.1	@ICP-QC			
134	1281	4			ICBAS	NI				0.9843		1.0000	05/04/95	10:12	dkz	0.02	@ICP-QC			
135	1281	4			ICBAS	P				0.0287		1.0000	05/04/95	10:12	dkz	0.2	@ICP-QC			
136	1281	4			ICBAS	PB				1.0429		1.0000	05/04/95	10:12	dkz	0.1	@ICP-QC			
137	1281	4			ICBAS	S				0.1701		1.0000	05/04/95	10:12	dkz	0.05	@ICP-QC			
138	1281	4			ICBAS	SB				-0.0034		1.0000	05/04/95	10:12	dkz	0.2	@ICP-QC			
139	1281	4			ICBAS	SE				0.0486		1.0000	05/04/95	10:12	dkz	0.1	@ICP-QC			
140	1281	4			ICBAS	SI				0.1094		1.0000	05/04/95	10:12	dkz	0.05	@ICP-QC			
141	1281	4			ICBAS	SM				0.0283		1.0000	05/04/95	10:12	dkz	0.1	@ICP-QC			
142	1281	4			ICBAS	SR				0.0036		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
143	1281	4			ICBAS	TI				0.0038		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
144	1281	4			ICBAS	TL				-0.0027		1.0000	05/04/95	10:12	dkz	0.2	@ICP-QC			
145	1281	4			ICBAS	U				0.1227		1.0000	05/04/95	10:12	dkz	0.4	@ICP-QC			
146	1281	4			ICBAS	V				0.5122		1.0000	05/04/95	10:12	dkz	0.05	@ICP-QC			
147	1281	4			ICBAS	ZN				1.0821		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
148	1281	4			ICBAS	ZR				0.0031		1.0000	05/04/95	10:12	dkz	0.01	@ICP-QC			
149	1281	5			PREPBLKARL	AG-F-01				0.0117		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
150	1281	5			PREPBLKARL	AL-F-01				1.1604		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
151	1281	5			PREPBLKARL	AS-F-01				-0.0436		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
152	1281	5			PREPBLKARL	B-F-01				0.0502		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
153	1281	5			PREPBLKARL	BA-F-01				0.0175		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
154	1281	5			PREPBLKARL	BE-F-01				0.0180		10.0000	05/04/95	10:19	dkz	0.005	@ICP-F03			
155	1281	5			PREPBLKARL	BL-F-01				0.1585		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
156	1281	5			PREPBLKARL	CA-F-01				0.1372		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
157	1281	5			PREPBLKARL	CD-F-01				0.0175		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
158	1281	5			PREPBLKARL	CE-F-01				0.5988		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
159	1281	5			PREPBLKARL	CO-F-01				0.0081		10.0000	05/04/95	10:19	dkz	0.02	@ICP-F03			
160	1281	5			PREPBLKARL	CR-F-01				0.0416		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
161	1281	5			PREPBLKARL	CU-F-01				0.0183		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
162	1281	5			PREPBLKARL	FE-F-01				0.9867		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
163	1281	5			PREPBLKARL	K-F-01				9655.9086		10.0000	05/04/95	10:19	dkz	0.3	@ICP-F03			
164	1281	5			PREPBLKARL	LA-F-01				-0.0037		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
165	1281	5			PREPBLKARL	LI-F-01				0.0246		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
166	1281	5			PREPBLKARL	MO-F-01				0.1891		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
167	1281	5			PREPBLKARL	MM-F-01				0.0485		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
168	1281	5			PREPBLKARL	NO-F-01				0.0347		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
169	1281	5			PREPBLKARL	NA-F-01				4.6370		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
170	1281	5			PREPBLKARL	ND-F-01				0.9529		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
171	1281	5			PREPBLKARL	NI-F-01				5.8428		10.0000	05/04/95	10:19	dkz	0.02	@ICP-F03			
172	1281	5			PREPBLKARL	P-F-01				-0.0528		10.0000	05/04/95	10:19	dkz	0.2	@ICP-F03			
173	1281	5			PREPBLKARL	PB-F-01				-0.0363		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
174	1281	5			PREPBLKARL	S-F-01				0.0511		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
175	1281	5			PREPBLKARL	SB-F-01				0.0127		10.0000	05/04/95	10:19	dkz	0.2	@ICP-F03			
176	1281	5			PREPBLKARL	SE-F-01				0.1842		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
177	1281	5			PREPBLKARL	SI-F-01				0.4980		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
178	1281	5			PREPBLKARL	SM-F-01				-0.0813		10.0000	05/04/95	10:19	dkz	0.1	@ICP-F03			
179	1281	5			PREPBLKARL	SR-F-01				0.0238		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
180	1281	5			PREPBLKARL	TI-F-01				0.0127		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
181	1281	5			PREPBLKARL	TL-F-01				-0.3217		10.0000	05/04/95	10:19	dkz	0.2	@ICP-F03			
182	1281	5			PREPBLKARL	U-F-01				-0.4147		10.0000	05/04/95	10:19	dkz	0.4	@ICP-F03			
183	1281	5			PREPBLKARL	V-F-01				0.0031		10.0000	05/04/95	10:19	dkz	0.05	@ICP-F03			
184	1281	5			PREPBLKARL	ZN-F-01				0.0002		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
185	1281	5			PREPBLKARL	ZR-F-01				0.0840		10.0000	05/04/95	10:19	dkz	0.01	@ICP-F03			
186	1281	6	S96T000615		LI-F-01					51.4207		5142.9747	05/04/95	10:27	dkz	0.01	@ICP-F03			
187	1281	7	S96T000615		LI-F-01					-51.4207		5142.974	05/04/95	10:32	dkz	0.01	@ICP-F03			
188	1281	8	S96T000615_A		LI-F-01					4834.3508		5142.9747	05/04/95	10:36	dkz	0.01	@ICP-F03			
189	1281	9			CCV	AG				3.0368		1.0000	05/04/95	10:43	dkz	0.01	@ICP-QC			
190	1281	9			CCV	AL				5.1331		1.0000	05/04/95	10:43	dkz	0.05	@ICP-QC			
191	1281	9			CCV	AS				5.0777		1.0000	05/04/95	10:43	dkz	0.05	@ICP-QC			
192	1281	9			CCV	B				5.1201		1.0000	05/04/95	10:43	dkz	0.05	@ICP-QC			
193	1281	9			CCV	BA				5.0871		1.0000	05/04/95	10:43	dkz	0.05	@ICP-QC			
194	1281	9			CCV	BE				5.2295		1.0000	05/04/95	10:43	dkz	0.005	@ICP-QC			
195	1281	9			CCV	BI				5.0873		1.0000	05/04/95	10:43	dkz	0.1	@ICP-QC			
196	1281	9			CCV	CA				5.1267		1.0000	05/04/95	10:43	dkz	0.1	@ICP-QC			
197	1281	9			CCV	CD				5.1842		1.0000	05/04/95	10:43	dkz	0.01	@ICP-QC			
198	1281	9			CCV	CE				5.1456		1.0000	05/04/95	10:43	dkz	0.1	@ICP-QC			
199	1281	9			CCV	CO				5.2407		1.0000	05/04/95	10:43	dkz	0.02	@ICP-QC			
200	1281	9			CCV	CR				5.1822		1.0000	05/04/95	10:43	dkz	0.01	@ICP-QC			
201	1281	9			CCV	CU				5.1236		1.0000	05/04/95	10:43	dkz	0.01	@ICP-QC			
202	1281	9			CCV	FE				5.1476		1.0000	05/04/95	10:43	dkz	0.05	@ICP-QC			
203	1281	9			CCV	K														

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
246	1281	10			CCB	MO				0.0050		1.0000	05/04/95	10:49	dks	0.05	@ICP-QC			
247	1281	10			CCB	NA				0.0062		1.0000	05/04/95	10:49	dks	0.1	@ICP-QC			
248	1281	10			CCB	ND				0.0170		1.0000	05/04/95	10:49	dks	0.1	@ICP-QC			
249	1281	10			CCB	NI				-0.0033		1.0000	05/04/95	10:49	dks	0.02	@ICP-QC			
250	1281	10			CCB	P				0.0080		1.0000	05/04/95	10:49	dks	0.2	@ICP-QC			
251	1281	10			CCB	PE				0.0208		1.0000	05/04/95	10:49	dks	0.1	@ICP-QC			
252	1281	10			CCB	S				-0.0085		1.0000	05/04/95	10:49	dks	0.05	@ICP-QC			
253	1281	10			CCB	SE				-0.0189		1.0000	05/04/95	10:49	dks	0.2	@ICP-QC			
254	1281	10			CCB	SI				-0.0371		1.0000	05/04/95	10:49	dks	0.1	@ICP-QC			
255	1281	10			CCB	SM				-0.0054		1.0000	05/04/95	10:49	dks	0.05	@ICP-QC			
256	1281	10			CCB	SR				0.0025		1.0000	05/04/95	10:49	dks	0.01	@ICP-QC			
257	1281	10			CCB	TI				0.0018		1.0000	05/04/95	10:49	dks	0.01	@ICP-QC			
258	1281	10			CCB	TL				0.0039		1.0000	05/04/95	10:49	dks	0.2	@ICP-QC			
259	1281	10			CCB	U				0.0282		1.0000	05/04/95	10:49	dks	0.4	@ICP-QC			
260	1281	10			CCB	V				0.0008		1.0000	05/04/95	10:49	dks	0.05	@ICP-QC			
261	1281	10			CCB	ZN				0.0023		1.0000	05/04/95	10:49	dks	0.01	@ICP-QC			
262	1281	10			CCB	ZR				0.0019		1.0000	05/04/95	10:49	dks	0.01	@ICP-QC			
263	1281	11	8957000822		LI-F-01					51.4192		5141.9189	05/04/95	10:57	dks	0.01	@ICP-F03			
264	1281	12	8957000822		LI-F-01					<51.2295		5122.9508	05/04/95	11:00	dks	0.01	@ICP-F03			
265	1281	13	8957000822_A		LI-F-01					5141.918		5141.9189	05/04/95	11:00	dks	0.01	@ICP-F03			
266	1281	14			DUP					0.1075		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
267	1281	14			ICSA	AG				208.1444		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
268	1281	14			ICSA	AL				0.0319		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
269	1281	14			ICSA	AS				-0.0422		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
270	1281	14			ICSA	B				0.0001		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
271	1281	14			ICSA	BA				0.0035		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
272	1281	14			ICSA	BE				0.0078		1.0000	05/04/95	11:17	dks	0.005	@ICP-QC			
273	1281	14			ICSA	BI				18.6384		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
274	1281	14			ICSA	CA				0.0150		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
275	1281	14			ICSA	CD				0.1020		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
276	1281	14			ICSA	CE				0.0029		1.0000	05/04/95	11:17	dks	0.02	@ICP-QC			
277	1281	14			ICSA	CO				-0.0088		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
278	1281	14			ICSA	CR				-0.0174		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
279	1281	14			ICSA	CU				149.3855		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
280	1281	14			ICSA	FE				-0.0275		1.0000	05/04/95	11:17	dks	0.3	@ICP-QC			
281	1281	14			ICSA	K				0.0185		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
282	1281	14			ICSA	LA				0.0013		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
283	1281	14			ICSA	LI				19.4222		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
284	1281	14			ICSA	MG				0.0088		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
285	1281	14			ICSA	MN				0.0014		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
286	1281	14			ICSA	NA				191.7080		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
287	1281	14			ICSA	ND				-0.0088		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
288	1281	14			ICSA	NI				-0.0578		1.0000	05/04/95	11:17	dks	0.02	@ICP-QC			
289	1281	14			ICSA	P				0.0391		1.0000	05/04/95	11:17	dks	0.2	@ICP-QC			
290	1281	14			ICSA	PE				0.0239		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
291	1281	14			ICSA	S				0.1780		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
292	1281	14			ICSA	SE				-0.0082		1.0000	05/04/95	11:17	dks	0.2	@ICP-QC			
293	1281	14			ICSA	SI				0.0984		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
294	1281	14			ICSA	SM				0.0783		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
295	1281	14			ICSA	SR				-0.0061		1.0000	05/04/95	11:17	dks	0.1	@ICP-QC			
296	1281	14			ICSA	TI				0.0011		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
297	1281	14			ICSA	TL				-0.0002		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
298	1281	14			ICSA	U				-0.0593		1.0000	05/04/95	11:17	dks	0.2	@ICP-QC			
299	1281	14			ICSA	V				-0.0015		1.0000	05/04/95	11:17	dks	0.4	@ICP-QC			
300	1281	14			ICSA	ZN				-0.0071		1.0000	05/04/95	11:17	dks	0.05	@ICP-QC			
301	1281	14			ICSA	ZR				0.0418		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
302	1281	14			ICSA	AG				-0.0019		1.0000	05/04/95	11:17	dks	0.01	@ICP-QC			
303	1281	15			ICSA	AL				0.9998		1.0000	05/04/95	11:20	dks	0.01	@ICP-QC			
304	1281	15			ICSA	AS				205.7820		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
305	1281	15			ICSA	B				0.0284		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
306	1281	15			ICSA	BA				-0.0418		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
307	1281	15			ICSA	BE				0.4875		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
308	1281	15			ICSA	BI				0.5015		1.0000	05/04/95	11:20	dks	0.005	@ICP-QC			
309	1281	15			ICSA	CA				0.0182		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
310	1281	15			ICSA	CD				18.7998		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
311	1281	15			ICSA	CE				1.0239		1.0000	05/04/95	11:20	dks	0.01	@ICP-QC			
312	1281	15			ICSA	CO				0.1053		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
313	1281	15			ICSA	CR				0.5126		1.0000	05/04/95	11:20	dks	0.02	@ICP-QC			
314	1281	15			ICSA	CU				0.5070		1.0000	05/04/95	11:20	dks	0.01	@ICP-QC			
315	1281	15			ICSA	FE				0.4725		1.0000	05/04/95	11:20	dks	0.01	@ICP-QC			
316	1281	15			ICSA	K				149.8144		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
317	1281	15			ICSA	LA				-0.4525		1.0000	05/04/95	11:20	dks	0.3	@ICP-QC			
318	1281	15			ICSA	LI				0.0137		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
319	1281	15			ICSA	MG				0.9218		1.0000	05/04/95	11:20	dks	0.01	@ICP-QC			
320	1281	15			ICSA	MN				19.8140		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
321	1281	15			ICSA	NA				0.5187		1.0000	05/04/95	11:20	dks	0.01	@ICP-QC			
322	1281	15			ICSA	ND				0.0023		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
323	1281	15			ICSA	NI				198.6216		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
324	1281	15			ICSA	P				-0.0052		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
325	1281	15			ICSA	PE				0.9388		1.0000	05/04/95	11:20	dks	0.02	@ICP-QC			
326	1281	15			ICSA	S				0.0193		1.0000	05/04/95	11:20	dks	0.2	@ICP-QC			
327	1281	15			ICSA	SE				1.0023		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
328	1281	15			ICSA	SI				0.1729		1.0000	05/04/95	11:20	dks	0.05	@ICP-QC			
329	1281	15			ICSA	SM				-0.0181		1.0000	05/04/95	11:20	dks	0.2	@ICP-QC			
330	1281	15			ICSA	SR				0.0784		1.0000	05/04/95	11:20	dks	0.1	@ICP-QC			
331	1281	15	</																	

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
367	1281	16			CCV	SE				5.2709			1.0000	05/04/95	11:28	dts	0.1	@ICP-QC		
368	1281	16			CCV	SI				4.8401			1.0000	05/04/95	11:28	dts	0.05	@ICP-QC		
369	1281	16			CCV	SM				4.8981			1.0000	05/04/95	11:28	dts	0.1	@ICP-QC		
370	1281	16			CCV	SR				5.0525			1.0000	05/04/95	11:28	dts	0.01	@ICP-QC		
371	1281	16			CCV	TI				4.9514			1.0000	05/04/95	11:28	dts	0.01	@ICP-QC		
372	1281	16			CCV	TL				4.9181			1.0000	05/04/95	11:28	dts	0.2	@ICP-QC		
373	1281	16			CCV	U				9.7136			1.0000	05/04/95	11:28	dts	0.4	@ICP-QC		
374	1281	16			CCV	V				4.9944			1.0000	05/04/95	11:28	dts	0.05	@ICP-QC		
375	1281	16			CCV	ZN				5.1378			1.0000	05/04/95	11:28	dts	0.01	@ICP-QC		
376	1281	16			CCV	ZR				5.0025			1.0000	05/04/95	11:28	dts	0.01	@ICP-QC		
377	1281	17			CCB	AG				0.0385			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
378	1281	17			CCB	AL				-0.0138			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
379	1281	17			CCB	AS				-0.0069			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
380	1281	17			CCB	B				0.0027			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
381	1281	17			CCB	BA				0.0005			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
382	1281	17			CCB	BE				0.0015			1.0000	05/04/95	11:34	dts	0.005	@ICP-QC		
383	1281	17			CCB	BI				-0.0081			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
384	1281	17			CCB	CA				0.0020			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
385	1281	17			CCB	CD				0.0018			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
386	1281	17			CCB	CE				0.0485			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
387	1281	17			CCB	CO				0.0038			1.0000	05/04/95	11:34	dts	0.02	@ICP-QC		
388	1281	17			CCB	CR				0.0015			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
389	1281	17			CCB	CU				-0.0012			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
390	1281	17			CCB	FE				0.0038			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
391	1281	17			CCB	K				-1.1797			1.0000	05/04/95	11:34	dts	0.3	@ICP-QC		
392	1281	17			CCB	LA				-0.0004			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
393	1281	17			CCB	LI				0.0017			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
394	1281	17			CCB	MG				0.0009			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
395	1281	17			CCB	MN				-0.0023			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
396	1281	17			CCB	MO				0.0018			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
397	1281	17			CCB	NA				-0.0232			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
398	1281	17			CCB	ND				0.0053			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
399	1281	17			CCB	NI				-0.0055			1.0000	05/04/95	11:34	dts	0.02	@ICP-QC		
400	1281	17			CCB	P				0.0082			1.0000	05/04/95	11:34	dts	0.2	@ICP-QC		
401	1281	17			CCB	PS				0.0085			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
402	1281	17			CCB	S				-0.0071			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
403	1281	17			CCB	SB				0.0418			1.0000	05/04/95	11:34	dts	0.2	@ICP-QC		
404	1281	17			CCB	SE				0.0885			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
405	1281	17			CCB	SI				-0.0150			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
406	1281	17			CCB	SM				-0.0089			1.0000	05/04/95	11:34	dts	0.1	@ICP-QC		
407	1281	17			CCB	SR				0.0009			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
408	1281	17			CCB	TI				-0.0011			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
409	1281	17			CCB	TL				-0.0288			1.0000	05/04/95	11:34	dts	0.2	@ICP-QC		
410	1281	17			CCB	U				-0.0430			1.0000	05/04/95	11:34	dts	0.4	@ICP-QC		
411	1281	17			CCB	V				-0.0024			1.0000	05/04/95	11:34	dts	0.05	@ICP-QC		
412	1281	17			CCB	ZN				0.0080			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		
413	1281	17			CCB	ZR				-0.0004			1.0000	05/04/95	11:34	dts	0.01	@ICP-QC		

WHC-SD-WM-DP-107, REV. 1

WHC-SD-WM-DP-107, REV. 1

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05/05/9512/24/95 JLCW
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LABCORE Data Entry Template for Worklist# 1282

Analyst: JK Scto Instrument: ICP01 Book# 418480

Method: LA-505-151 Rev/Mod J-2

Worklist Comment: ICP U-201 FUSION

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPBLKARL		@ICP-F03	SOLID		
6	SAMPLE	S95T000549 0 F	@ICP-F03	SOLID	95000033	U-201
		Analytes Requested: LI-F-01				
7	DUP	S95T000549 0 F	@ICP-F03	SOLID		
8	SPK	S95T000549 0 F	@ICP-F03	SOLID		
	CCV		@ICP-QC	QC		
10	CCB		@ICP-QC	QC		
11	SAMPLE	S95T000553 0 F	@ICP-F03	SOLID	95000033	U-201
		Analytes Requested: LI-F-01				
12	DUP	S95T000553 0 F	@ICP-F03	SOLID		
13	SPK	S95T000553 0 F	@ICP-F03	SOLID		
14	ICSA		@ICP-QC	QC		
15	ICSAB		@ICP-QC	QC		
16	CCV		@ICP-QC	QC		
17	CCB		@ICP-QC	QC		

Data Entry Comments:

20 05/08/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

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LABCORE Data Entry Template for Worklist# 1282

S Type	Sample#	R A	Test	Matrix	Group#	Project
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Final page for worklist # 1282

JK LGO 05-04-95
Analyst Signature Date

Analyst Signature Date

Prep b/KGL 1-9 mL

595T000549-L	.4800 g in 250 mL	1-9-1-4	(250 x 50) / .4800 = 26042
595T000549	.4800 g in 250	1-9	(250 x 10) / .4800 = 5208
595T000549-D	.4767 g in 250	1-9	(250 x 10) / .4767 = 5244
595T000549-Q	.4800 g in 250	1-9	(250 x 10) / .4800 = 5208 1 mL sample + 2 mL SS75 + 7 mL HNO ₃
595T000553-L	.5685 g in 250 mL	1-9-1-4	(250 x 50) / .5685 = 21988
595T000553	.5685 g in 250	1-9	(250 x 10) / .5685 = 4398
595T000553-D	.5590 g in 250	1-9	(250 x 10) / .5590 = 4472
595T000553-Q	.5685 g in 250	1-9	(250 x 10) / .5685 = 4398 1 mL sample + 2 mL SS75 + 7 mL HNO ₃

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	1282	1			ICV	AG				4.9825		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
2	1282	1			ICV	AL				4.9877		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
3	1282	1			ICV	AS				5.0619		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
4	1282	1			ICV	BA				5.0201		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
5	1282	1			ICV	BE				4.8972		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
6	1282	1			ICV	BI				5.2027		1.0000	05/04/95	12:51	dks	0.005	@ICP-QC			
7	1282	1			ICV	CA				4.9307		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
8	1282	1			ICV	CD				4.8546		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
9	1282	1			ICV	CE				5.1194		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
10	1282	1			ICV	CO				4.8220		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
11	1282	1			ICV	CU				5.2465		1.0000	05/04/95	12:51	dks	0.02	@ICP-QC			
12	1282	1			ICV	CR				3.1633		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
13	1282	1			ICV	FE				4.8342		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
14	1282	1			ICV	K				5.0399		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
15	1282	1			ICV	LA				3.4138		1.0000	05/04/95	12:51	dks	0.3	@ICP-QC			
16	1282	1			ICV	LI				4.8311		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
17	1282	1			ICV	MG				5.0988		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
18	1282	1			ICV	MN				5.1346		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
19	1282	1			ICV	MO				5.0851		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
20	1282	1			ICV	NA				5.1446		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
21	1282	1			ICV	ND				4.9273		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
22	1282	1			ICV	NI				4.8889		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
23	1282	1			ICV	P				5.0847		1.0000	05/04/95	12:51	dks	0.02	@ICP-QC			
24	1282	1			ICV	PB				5.3389		1.0000	05/04/95	12:51	dks	0.2	@ICP-QC			
25	1282	1			ICV	SB				5.0798		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
26	1282	1			ICV	SE				5.3970		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
27	1282	1			ICV	SI				4.7104		1.0000	05/04/95	12:51	dks	0.2	@ICP-QC			
28	1282	1			ICV	SM				5.3903		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
29	1282	1			ICV	SR				4.8826		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
30	1282	1			ICV	TL				4.8481		1.0000	05/04/95	12:51	dks	0.1	@ICP-QC			
31	1282	1			ICV	U				4.9082		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
32	1282	1			ICV	V				4.8818		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
33	1282	1			ICV	ZN				4.8413		1.0000	05/04/95	12:51	dks	0.2	@ICP-QC			
34	1282	1			ICV	ZR				9.3201		1.0000	05/04/95	12:51	dks	0.4	@ICP-QC			
35	1282	1			ICV	AG				4.8491		1.0000	05/04/95	12:51	dks	0.05	@ICP-QC			
36	1282	1			ICV	AL				5.2208		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
37	1282	1			ICV	AS				4.8634		1.0000	05/04/95	12:51	dks	0.01	@ICP-QC			
38	1282	2			ICB	BA				0.0037		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
39	1282	2			ICB	BE				-0.0318		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
40	1282	2			ICB	BI				-0.0025		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
41	1282	2			ICB	CA				0.0029		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
42	1282	2			ICB	CD				0.0015		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
43	1282	2			ICB	CE				0.0017		1.0000	05/04/95	12:57	dks	0.005	@ICP-QC			
44	1282	2			ICB	CO				-0.0088		1.0000	05/04/95	12:57	dks	0.1	@ICP-QC			
45	1282	2			ICB	CR				0.0025		1.0000	05/04/95	12:57	dks	0.1	@ICP-QC			
46	1282	2			ICB	CU				0.0012		1.0000	05/04/95	12:57	dks	0.1	@ICP-QC			
47	1282	2			ICB	FE				0.0935		1.0000	05/04/95	12:57	dks	0.02	@ICP-QC			
48	1282	2			ICB	K				-0.0009		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
49	1282	2			ICB	LA				0.0001		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
50	1282	2			ICB	LI				-0.0035		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
51	1282	2			ICB	MG				-1.8598		1.0000	05/04/95	12:57	dks	0.3	@ICP-QC			
52	1282	2			ICB	MN				-0.0000		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
53	1282	2			ICB	MO				0.0008		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
54	1282	2			ICB	NA				-0.0012		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
55	1282	2			ICB	ND				0.0029		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
56	1282	2			ICB	NI				-0.0801		1.0000	05/04/95	12:57	dks	0.1	@ICP-QC			
57	1282	2			ICB	P				-0.0109		1.0000	05/04/95	12:57	dks	0.02	@ICP-QC			
58	1282	2			ICB	PB				-0.0021		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
59	1282	2			ICB	SE				-0.0182		1.0000	05/04/95	12:57	dks	0.1	@ICP-QC			
60	1282	2			ICB	SI				0.0094		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
61	1282	2			ICB	SM				-0.0071		1.0000	05/04/95	12:57	dks	0.2	@ICP-QC			
62	1282	2			ICB	SR				0.0011		1.0000	05/04/95	12:57	dks	0.1	@ICP-QC			
63	1282	2			ICB	TL				0.0468		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
64	1282	2			ICB	U				-0.0080		1.0000	05/04/95	12:57	dks	0.1	@ICP-QC			
65	1282	2			ICB	V				0.0134		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
66	1282	2			ICB	ZN				0.0012		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
67	1282	2			ICB	ZR				0.0005		1.0000	05/04/95	12:57	dks	0.2	@ICP-QC			
68	1282	2			ICB	AG				-0.0046		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
69	1282	2			ICB	AL				0.0142		1.0000	05/04/95	12:57	dks	0.4	@ICP-QC			
70	1282	2			ICB	AS				0.0001		1.0000	05/04/95	12:57	dks	0.05	@ICP-QC			
71	1282	2			ICB	BA				0.0080		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
72	1282	2			ICB	BE				0.0022		1.0000	05/04/95	12:57	dks	0.01	@ICP-QC			
73	1282	2			ICB	BI				0.0088		1.0000	05/04/95	12:59	dks	0.05	@ICP-QC			
74	1282	2			ICB	CA				206.1517		1.0000	05/04/95	12:59	dks	0.05	@ICP-QC			
75	1282	2			ICB	CD				0.0294		1.0000	05/04/95	12:59	dks	0.05	@ICP-QC			
76	1282	2			ICB	CE				-0.0428		1.0000	05/04/95	12:59	dks	0.05	@ICP-QC			
77	1282	2			ICB	CO				-0.0002		1.0000	05/04/95	12:59	dks	0.05	@ICP-QC			
78	1282	2			ICB	CR				0.0034		1.0000	05/04/95	12:59	dks	0.05	@ICP-QC			
79	1282	2			ICB	CU				-0.0055		1.0000	05/04/95	12:59	dks	0.005	@ICP-QC			
80	1282	2			ICB	FE				18.8534		1.0000	05/04/95	12:59	dks	0.1	@ICP-QC			
81	1282	2			ICB	K				0.0154		1.0000	05/04/95	12:59	dks	0.01	@ICP-QC			
82	1282	2			ICB	LA				0.0835		1.0000	05/04/95	12:59	dks	0.02	@ICP-QC			
83	1282	2			ICB	LI				0.0000		1.0000	05/04/95	12:59	dks	0.01	@ICP-QC			
84	1282	2			ICB	MG				-0.0078		1.0000	05/04/95	12:59	dks	0.01	@ICP-QC			
85	1282	2			ICB	MN				-0.0078		1.0000	05/04/95	12:59	dks	0.01	@ICP-QC			
86	1282	2			ICB	MO				0.0000		1.0000	05/04/95	12:59	dks	0.05	@ICP-QC			
87	1282	2			ICB	NA				-0.0004		1.0000	05/04/95	12:59	dks	0.1				

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
121	1282	4			ICSB	CR				0.4803			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
122	1282	4			ICSB	CU				0.4807			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
123	1282	4			ICSB	FE				145.4715			1.0000	05/04/95	13:02	dts			0.05	@ICP-QC
124	1282	4			ICSB	K				-1.6724			1.0000	05/04/95	13:02	dts			0.3	@ICP-QC
125	1282	4			ICSB	LA				0.0137			1.0000	05/04/95	13:02	dts			0.05	@ICP-QC
126	1282	4			ICSB	LI				0.9588			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
127	1282	4			ICSB	MG				15.0497			1.0000	05/04/95	13:02	dts			0.1	@ICP-QC
128	1282	4			ICSB	MN				0.5030			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
129	1282	4			ICSB	MO				0.0004			1.0000	05/04/95	13:02	dts			0.05	@ICP-QC
130	1282	4			ICSB	NA				192.4428			1.0000	05/04/95	13:02	dts			0.1	@ICP-QC
131	1282	4			ICSB	ND				0.0071			1.0000	05/04/95	13:02	dts			0.1	@ICP-QC
132	1282	4			ICSB	NI				0.8124			1.0000	05/04/95	13:02	dts			0.02	@ICP-QC
133	1282	4			ICSB	P				0.0270			1.0000	05/04/95	13:02	dts			0.2	@ICP-QC
134	1282	4			ICSB	PB				1.0081			1.0000	05/04/95	13:02	dts			0.1	@ICP-QC
135	1282	4			ICSB	S				0.1718			1.0000	05/04/95	13:02	dts			0.05	@ICP-QC
136	1282	4			ICSB	SB				-0.0084			1.0000	05/04/95	13:02	dts			0.2	@ICP-QC
137	1282	4			ICSB	SE				0.1553			1.0000	05/04/95	13:02	dts			0.1	@ICP-QC
138	1282	4			ICSB	SI				0.0982			1.0000	05/04/95	13:02	dts			0.05	@ICP-QC
139	1282	4			ICSB	SM				0.0222			1.0000	05/04/95	13:02	dts			0.1	@ICP-QC
140	1282	4			ICSB	SR				0.0026			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
141	1282	4			ICSB	TI				0.0014			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
142	1282	4			ICSB	TL				-0.0082			1.0000	05/04/95	13:02	dts			0.2	@ICP-QC
143	1282	4			ICSB	U				0.0618			1.0000	05/04/95	13:02	dts			0.4	@ICP-QC
144	1282	4			ICSB	V				0.4866			1.0000	05/04/95	13:02	dts			0.05	@ICP-QC
145	1282	4			ICSB	ZN				0.9954			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
146	1282	4			ICSB	ZR				0.0017			1.0000	05/04/95	13:02	dts			0.01	@ICP-QC
147	1282	5			PREPBLKARL	AG-F-01				0.0481			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
148	1282	5			PREPBLKARL	AL-F-01				1.3598			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
149	1282	5			PREPBLKARL	AS-F-01				0.0211			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
150	1282	5			PREPBLKARL	B-F-01				0.0371			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
151	1282	5			PREPBLKARL	BA-F-01				0.0408			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
152	1282	5			PREPBLKARL	BE-F-01				0.0234			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
153	1282	5			PREPBLKARL	BF-F-01				-0.2457			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
154	1282	5			PREPBLKARL	CA-F-01				0.2440			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
155	1282	5			PREPBLKARL	CD-F-01				0.0085			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
156	1282	5			PREPBLKARL	CE-F-01				0.3370			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
157	1282	5			PREPBLKARL	CO-F-01				0.0285			10.0000	05/04/95	13:09	dts			0.02	@ICP-F33
158	1282	5			PREPBLKARL	CR-F-01				0.0211			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
159	1282	5			PREPBLKARL	CUI-F-01				-0.0209			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
160	1282	5			PREPBLKARL	FE-F-01				1.0054			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
161	1282	5			PREPBLKARL	K-F-01				10473.0277			10.0000	05/04/95	13:09	dts			0.3	@ICP-F33
162	1282	5			PREPBLKARL	LA-F-01				-0.0175			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
163	1282	5			PREPBLKARL	LI-F-01				0.0178			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
164	1282	5			PREPBLKARL	MG-F-01				0.1543			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
165	1282	5			PREPBLKARL	MN-F-01				0.0202			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
166	1282	5			PREPBLKARL	MO-F-01				0.0441			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
167	1282	5			PREPBLKARL	NA-F-01				0.6439			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
168	1282	5			PREPBLKARL	ND-F-01				0.0899			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
169	1282	5			PREPBLKARL	NI-F-01				0.0294			10.0000	05/04/95	13:09	dts			0.02	@ICP-F33
170	1282	5			PREPBLKARL	P-F-01				0.3723			10.0000	05/04/95	13:09	dts			0.2	@ICP-F33
171	1282	5			PREPBLKARL	PB-F-01				0.0098			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
172	1282	5			PREPBLKARL	S-F-01				-0.0227			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
173	1282	5			PREPBLKARL	SB-F-01				0.2939			10.0000	05/04/95	13:09	dts			0.2	@ICP-F33
174	1282	5			PREPBLKARL	SE-F-01				0.7429			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
175	1282	5			PREPBLKARL	SI-F-01				0.6171			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
176	1282	5			PREPBLKARL	SM-F-01				0.4575			10.0000	05/04/95	13:09	dts			0.1	@ICP-F33
177	1282	5			PREPBLKARL	SR-F-01				0.0171			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
178	1282	5			PREPBLKARL	TI-F-01				0.0185			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
179	1282	5			PREPBLKARL	TL-F-01				0.7605			10.0000	05/04/95	13:09	dts			0.2	@ICP-F33
180	1282	5			PREPBLKARL	U-F-01				1.4902			10.0000	05/04/95	13:09	dts			0.4	@ICP-F33
181	1282	5			PREPBLKARL	V-F-01				0.0097			10.0000	05/04/95	13:09	dts			0.05	@ICP-F33
182	1282	5			PREPBLKARL	ZN-F-01				-0.0178			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
183	1282	5			PREPBLKARL	ZR-F-01				0.0835			10.0000	05/04/95	13:09	dts			0.01	@ICP-F33
184	1282	5			PREPBLKARL	LI-F-01				52.0833			3208.3333	05/04/95	13:17	dts			0.01	@ICP-F33
185	1282	7	895T000549		DUP	LI-F-01				<52.4439			5244.3885	05/04/95	13:22	dts			0.01	@ICP-F33
186	1282	8	895T000549_A		SPK	LI-F-01				5208.333			5208.3333	05/04/95	13:26	dts			0.01	@ICP-F33
187	1282	9			CCV	AG				3.1398			1.0000	05/04/95	13:35	dts			0.01	@ICP-QC
188	1282	9			CCV	AL				5.0185			1.0000	05/04/95	13:35	dts			0.05	@ICP-QC
189	1282	9			CCV	AS				5.0285			1.0000	05/04/95	13:35	dts			0.05	@ICP-QC
190	1282	9			CCV	B				5.0789			1.0000	05/04/95	13:35	dts			0.05	@ICP-QC
191	1282	9			CCV	BA				4.9188			1.0000	05/04/95	13:35	dts			0.05	@ICP-QC
192	1282	9			CCV	BE				5.2026			1.0000	05/04/95	13:35	dts			0.005	@ICP-QC
193	1282	9			CCV	BI				4.8540			1.0000	05/04/95	13:35	dts			0.1	@ICP-QC
194	1282	9			CCV	CA				5.0113			1.0000	05/04/95	13:35	dts			0.1	@ICP-QC
195	1282	9			CCV	CD				5.1151			1.0000	05/04/95	13:35	dts			0.01	@ICP-QC
196	1282	9			CCV	CE				4.8921			1.0000	05/04/95	13:35	dts			0.1	@ICP-QC
197	1282	9			CCV	CO				5.1900			1.0000	05/04/95	13:35	dts			0.02	@ICP-QC
198	1282	9			CCV	CR				5.1478			1.0000	05/04/95	13:35	dts			0.01	@ICP-QC
199	1282	9			CCV	CU				4.9984			1.0000	05/04/95	13:35	dts			0.01	@ICP-QC
200	1282	9			CCV	FE				5.1115			1.0000	05/04/95	13:35	dts			0.05	@ICP-QC
201	1282	9			CCV	K														

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
245	1282	10			CCB	MO				0.0037		1.0000	05/04/95	13:41	dts		0.05	@ICP-QC		
246	1282	10			CCB	NA				-0.0248		1.0000	05/04/95	13:41	dts		0.1	@ICP-QC		
247	1282	10			CCB	ND				0.0023		1.0000	05/04/95	13:41	dts		0.1	@ICP-QC		
248	1282	10			CCB	P				-0.0082		1.0000	05/04/95	13:41	dts		0.02	@ICP-QC		
249	1282	10			CCB	PS				0.0187		1.0000	05/04/95	13:41	dts		0.2	@ICP-QC		
250	1282	10			CCB	S				-0.0029		1.0000	05/04/95	13:41	dts		0.1	@ICP-QC		
251	1282	10			CCB	SE				-0.0012		1.0000	05/04/95	13:41	dts		0.05	@ICP-QC		
252	1282	10			CCB	SI				0.0306		1.0000	05/04/95	13:41	dts		0.2	@ICP-QC		
253	1282	10			CCB	SM				0.0094		1.0000	05/04/95	13:41	dts		0.1	@ICP-QC		
254	1282	10			CCB	SR				-0.0275		1.0000	05/04/95	13:41	dts		0.05	@ICP-QC		
255	1282	10			CCB	TI				-0.0427		1.0000	05/04/95	13:41	dts		0.1	@ICP-QC		
256	1282	10			CCB	TL				0.0025		1.0000	05/04/95	13:41	dts		0.01	@ICP-QC		
257	1282	10			CCB	U				-0.0006		1.0000	05/04/95	13:41	dts		0.01	@ICP-QC		
258	1282	10			CCB	V				-0.0824		1.0000	05/04/95	13:41	dts		0.2	@ICP-QC		
259	1282	10			CCB	ZN				-0.1547		1.0000	05/04/95	13:41	dts		0.4	@ICP-QC		
260	1282	10			CCB	ZR				-0.0033		1.0000	05/04/95	13:41	dts		0.05	@ICP-QC		
261	1282	10			CCB	LI-F-01				0.0012		1.0000	05/04/95	13:41	dts		0.01	@ICP-QC		
262	1282	10			CCB	LI-F-01				-0.0014		1.0000	05/04/95	13:41	dts		0.01	@ICP-QC		
263	1282	11	8957000553		DUP	LI-F-01				43.8754		4397.5374	05/04/95	13:46	dts		0.01	@ICP-F03		
264	1282	12	8957000553		SPK	LI-F-01				-44.7227		4472.2719	05/04/95	13:53	dts		0.01	@ICP-F03		
265	1282	13	8957000553_A		AG	LI-F-01				3961.7124		4397.5374	05/04/95	13:57	dts		0.01	@ICP-F03		
266	1282	14			AL					0.0884		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
267	1282	14			AS					207.5021		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
268	1282	14			B					0.0219		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
269	1282	14			BA					-0.0442		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
270	1282	14			BE					0.0012		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
271	1282	14			BI					0.0042		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
272	1282	14			CA					-0.0244		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
273	1282	14			CD					19.8058		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
274	1282	14			CE					0.0156		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
275	1282	14			CO					0.0586		1.0000	05/04/95	14:07	dts		0.02	@ICP-QC		
276	1282	14			CR					0.0038		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
277	1282	14			CU					-0.0080		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
278	1282	14			FE					-0.0165		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
279	1282	14			K					147.2757		1.0000	05/04/95	14:07	dts		0.3	@ICP-QC		
280	1282	14			LA					-0.2286		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
281	1282	14			LI					0.0147		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
282	1282	14			MG					0.0026		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
283	1282	14			MN					19.1878		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
284	1282	14			MO					0.0088		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
285	1282	14			NA					-0.0002		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
286	1282	14			ND					182.0044		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
287	1282	14			NI					0.0175		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
288	1282	14			P					-0.0822		1.0000	05/04/95	14:07	dts		0.02	@ICP-QC		
289	1282	14			PS					0.0585		1.0000	05/04/95	14:07	dts		0.2	@ICP-QC		
290	1282	14			SE					0.0480		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
291	1282	14			SI					0.2011		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
292	1282	14			SM					0.0383		1.0000	05/04/95	14:07	dts		0.2	@ICP-QC		
293	1282	14			SR					0.1771		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
294	1282	14			TI					0.0795		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
295	1282	14			TL					0.0158		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
296	1282	14			U					0.0015		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
297	1282	14			V					-0.0002		1.0000	05/04/95	14:07	dts		0.2	@ICP-QC		
298	1282	14			ZN					0.0042		1.0000	05/04/95	14:07	dts		0.1	@ICP-QC		
299	1282	14			ZR					0.0954		1.0000	05/04/95	14:07	dts		0.4	@ICP-QC		
300	1282	14			AG					-0.0048		1.0000	05/04/95	14:07	dts		0.05	@ICP-QC		
301	1282	14			AL					0.1419		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
302	1282	14			AS					0.0005		1.0000	05/04/95	14:07	dts		0.01	@ICP-QC		
303	1282	15			B					1.0877		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
304	1282	15			BA					205.6307		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
305	1282	15			BE					0.0150		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
306	1282	15			BI					-0.0459		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
307	1282	15			CA					0.4918		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
308	1282	15			CD					0.4912		1.0000	05/04/95	14:10	dts		0.005	@ICP-QC		
309	1282	15			CE					-0.0272		1.0000	05/04/95	14:10	dts		0.1	@ICP-QC		
310	1282	15			CO					18.8479		1.0000	05/04/95	14:10	dts		0.1	@ICP-QC		
311	1282	15			CR					0.9913		1.0000	05/04/95	14:10	dts		0.01	@ICP-QC		
312	1282	15			CU					0.0697		1.0000	05/04/95	14:10	dts		0.1	@ICP-QC		
313	1282	15			FE					0.4915		1.0000	05/04/95	14:10	dts		0.02	@ICP-QC		
314	1282	15			K					0.4948		1.0000	05/04/95	14:10	dts		0.01	@ICP-QC		
315	1282	15			LA					0.4770		1.0000	05/04/95	14:10	dts		0.01	@ICP-QC		
316	1282	15			LI					145.2659		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
317	1282	15			MG					-1.3519		1.0000	05/04/95	14:10	dts		0.3	@ICP-QC		
318	1282	15			MN					0.0122		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
319	1282	15			MO					0.9501		1.0000	05/04/95	14:10	dts		0.01	@ICP-QC		
320	1282	15			NA					18.8231		1.0000	05/04/95	14:10	dts		0.1	@ICP-QC		
321	1282	15			ND					0.5003		1.0000	05/04/95	14:10	dts		0.01	@ICP-QC		
322	1282	15			NI					-0.0027		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
323	1282	15			P					191.3767		1.0000	05/04/95	14:10	dts		0.1	@ICP-QC		
324	1282	15			PS					-0.0139		1.0000	05/04/95	14:10	dts		0.02	@ICP-QC		
325	1282	15			SE					0.9144		1.0000	05/04/95	14:10	dts		0.02	@ICP-QC		
326	1282	15			SI					0.0294		1.0000	05/04/95	14:10	dts		0.2	@ICP-QC		
327	1282	15			SM					1.0055		1.0000	05/04/95	14:10	dts		0.1	@ICP-QC		
328	1282	15			SR					0.1714		1.0000	05/04/95	14:10	dts		0.05	@ICP-QC		
329	1282	15			TI					0.0107		1.0000	05/04/95	14:10	dts		0.2	@ICP-QC		
330	1282	15			TL					0.1508		1.0000	05/04/95	14:10	dts		0.1	@ICP-QC		
331	1282	15			U					0.078										

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
367	1282	18			CCV	SE				5.2898			1.0000	05/04/95	14:19	dkb	0.1	@ICP-QC		
368	1282	18			CCV	SI				4.7779			1.0000	05/04/95	14:19	dkb	0.05	@ICP-QC		
369	1282	18			CCV	SM				4.8399			1.0000	05/04/95	14:19	dkb	0.1	@ICP-QC		
370	1282	18			CCV	SR				4.8880			1.0000	05/04/95	14:19	dkb	0.01	@ICP-QC		
371	1282	18			CCV	TI				4.8168			1.0000	05/04/95	14:19	dkb	0.01	@ICP-QC		
372	1282	18			CCV	TL				4.8218			1.0000	05/04/95	14:19	dkb	0.2	@ICP-QC		
373	1282	18			CCV	U				9.4189			1.0000	05/04/95	14:19	dkb	0.4	@ICP-QC		
374	1282	18			CCV	V				4.9051			1.0000	05/04/95	14:19	dkb	0.05	@ICP-QC		
375	1282	18			CCV	ZN				5.1144			1.0000	05/04/95	14:19	dkb	0.01	@ICP-QC		
376	1282	18			CCV	ZR				4.8874			1.0000	05/04/95	14:19	dkb	0.01	@ICP-QC		
377	1282	17			CCB	AG				0.0240			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
378	1282	17			CCB	AL				0.0917			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
379	1282	17			CCB	AS				0.0058			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
380	1282	17			CCB	B				0.0058			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
381	1282	17			CCB	BA				0.0019			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
382	1282	17			CCB	BE				0.0030			1.0000	05/04/95	14:25	dkb	0.005	@ICP-QC		
383	1282	17			CCB	BI				-0.0258			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
384	1282	17			CCB	CA				0.0466			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
385	1282	17			CCB	CD				0.0025			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
386	1282	17			CCB	CE				0.0774			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
387	1282	17			CCB	CO				0.0010			1.0000	05/04/95	14:25	dkb	0.02	@ICP-QC		
388	1282	17			CCB	CR				0.0053			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
389	1282	17			CCB	CU				-0.0011			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
390	1282	17			CCB	FE				0.0985			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
391	1282	17			CCB	K				-1.5484			1.0000	05/04/95	14:25	dkb	0.3	@ICP-QC		
392	1282	17			CCB	L				0.0011			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
393	1282	17			CCB	LA				0.0091			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
394	1282	17			CCB	LI				0.0458			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
395	1282	17			CCB	MG				-0.0010			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
396	1282	17			CCB	MN				0.0028			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
397	1282	17			CCB	MO				0.0089			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
398	1282	17			CCB	NA				0.0122			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
399	1282	17			CCB	ND				-0.0047			1.0000	05/04/95	14:25	dkb	0.02	@ICP-QC		
400	1282	17			CCB	NI				0.0074			1.0000	05/04/95	14:25	dkb	0.2	@ICP-QC		
401	1282	17			CCB	P				0.0223			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
402	1282	17			CCB	PB				-0.0005			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
403	1282	17			CCB	S				0.0357			1.0000	05/04/95	14:25	dkb	0.2	@ICP-QC		
404	1282	17			CCB	SS				0.1048			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
405	1282	17			CCB	SE				-0.0158			1.0000	05/04/95	14:25	dkb	0.85	@ICP-QC		
406	1282	17			CCB	SI				0.0060			1.0000	05/04/95	14:25	dkb	0.1	@ICP-QC		
407	1282	17			CCB	SM				0.0023			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
408	1282	17			CCB	SR				-0.0004			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
409	1282	17			CCB	TL				-0.0059			1.0000	05/04/95	14:25	dkb	0.2	@ICP-QC		
410	1282	17			CCB	U				-0.0147			1.0000	05/04/95	14:25	dkb	0.4	@ICP-QC		
411	1282	17			CCB	V				-0.0004			1.0000	05/04/95	14:25	dkb	0.05	@ICP-QC		
412	1282	17			CCB	ZN				0.0018			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		
413	1282	17			CCB	ZR				0.0018			1.0000	05/04/95	14:25	dkb	0.01	@ICP-QC		

WHC-SD-WM-DP-107, REV. 1

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WHC-SD-WM-DP-107, REV. 1

RADIOCHEMICAL ANALYSES

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RUSH**RUSH**worklistrpt Version 2.0 02/21/95
04/20/95 09:48

Page: 1

LABCORE Data Entry Template for Worklist# 1185Analyst: AKL Instrument: AB00 13 Book # 107652Method: LA-508-101 Rev/Mod D-2UB 27810Worklist Comment: Sample size 1.5 mL (Boil Down). Use .100 mL A-SPK. SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			QALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			QALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG	<u>50</u>		QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	4 SAMPLE	S95T000549	0	QALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000033	U-201	4 SAMPLE	S95T000549	0	QALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000033	U-201	5 DUP	S95T000549	0	QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	5 DUP	S95T000549	0	QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000033	U-201	6 SPK	S95T000549	0	QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	7 SAMPLE	S95T000553	0 F	QALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000033	U-201	7 SAMPLE	S95T000553	0 F	QALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000033	U-201	8 DUP	S95T000553	0 F	QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	8 DUP	S95T000553	0 F	QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000033	U-201	9 SPK	S95T000553	0 F	QALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1185A. Lewis4/26/95Sharon L. Halder28
427.85
846
4.27.85

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.

WHC-SD-WM-DP- 107, REV. 1**104**179 juw 1/2/95

LABCORE Data Entry Template for Worklist# 1185

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

Data Entry Comments:

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

WHC-SD-WM-DP- 107, REV. 1

105

150 *Jew* 195

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

LA-548-101 (A-3)

LIQUIDS

STANDARD	WORKING	TOTAL COUNTS	COUNT TIME IN MINUTES	BACKGROUND IN cpm	SAMPLE SIZE IN mL	DILUTION FACTOR	DIGEST DILUTION FACTOR	EFFICIENCY FACTOR	LC, Rmax, or RS, (SAMPLE RATE) as APPROPRIATE	SAMPLE CONCENTRATION IN µCi/L	REPLICATE CONCENTRATION IN µCi/L	BOOK#
13	2	4036	30	0.6	10.000	1	1	0.2322	134.000	2.60E-02	2.39E-02	107B52
2	2	3720	30	0.6	10.000	1	1	0.2322	123.400	2.60E-02	2.39E-02	107B52
13	2	3720	30	0.6	10.000	1	1	0.2322	123.400	2.60E-02	2.39E-02	107B52

Average Concentration in µCi/L 2.4967E-02
 RS (Sample Count Rate) = (TC / CT) - BKG
 ALPHA TOTAL µCi/L = RS * 1000mL / DF * DDF / (EFF * SS * 2220000dpm/µCi)
 ALPHA TOTAL µCi/L = ALPHA TOTAL µCi/L / 1000mL/L
 Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100
 Detection Levels and Less Than Values are determined from Procedure LA-508-002.

ALPHA TOTAL	in µCi/mL	(Average)	=	2.50E-05	DETECTION LEVEL
RELATIVE COUNTING ERROR	=	3.2%		1.46E-07	µCi/mL

RESULTS

Date Entry by: *[Signature]*
 Approved by: *[Signature]*
 Date: 04/27/95
 Date: 27 Apr 95

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

LA-548-101 (A-3)

SOLIDS

		BLANK	REPLICATE
Type	DETECTOR NUMBER	13	13
BLANK	DISH SIZE 1, 2, or 5 (MS)	2	2
WORK LOG	TOTAL COUNTS (TC)	9	9
1165	COUNT TIME in MINUTES (CT)	30	30
AT SD 157	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.92	1.92
ANALYST	EFFICIENCY FACTOR (EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.330	0.330
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 6.67E-04	BOOK#
S95T549	Replicate Concentration in $\mu\text{Ci/g}$	< 6.67E-04	
Instrument Code			
WB27810	Maximum Concentration in $\mu\text{Ci/g}$	< 6.6685E-04	
Analyst			
AKL	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95			
Time	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
10:00 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 6.67E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.				
RELATIVE COUNTING ERROR		=	113.2%	1.52E-03 $\mu\text{Ci/g}$

Data Entry by: <i>Sharon L. Halden</i>	Date: 04/27/95
Approved by: <i>[Signature]</i>	Date: 27 Apr 95

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	17	22
1185	COUNT TIME in MINUTES (CT)	30	30
AT 57187	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.92	1.92
Matrix	EFFICIENCY FACTOR (EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.330	0.481
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 6.67E-04	BOOK#
S95T549	Replicate Concentration in $\mu\text{Ci/g}$	< 9.72E-04	
Instrument Code			
WB27810	Maximum Concentration in $\mu\text{Ci/g}$	< 9.7235E-04	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/28/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
10:00 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 9.72E-04	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				1.52E-03
RELATIVE COUNTING ERROR	=	500.0%		$\mu\text{Ci/g}$

Data Entry by: *Sharon K. Uddell*

Date: 04/27/95

Approved by: *51652-JH*

Date: 27 Apr 95

Form 508101_C Rev. 1.3

Page 1 of 1

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

LA-548-101 (A-3) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
WORKER	TOTAL COUNTS (TC)	28	12
1185	COUNT TIME in MINUTES (CT)	30	30
ALPHA 157	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9069	1.9069
Matrix	EFFICIENCY FACTOR (EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	0.333	0.330
Sample #	Sample Concentration in $\mu\text{Ci/g}$	6.78E-04	BOOK#
S95T549	Replicate Concentration in $\mu\text{Ci/g}$	< 6.71E-04	
Instrument Code			
WB27810	Maximum Concentration in $\mu\text{Ci/g}$	< 6.7821E-04	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/28/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
10:00 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 6.78E-04	DETECTION LEVEL
LESS THAN Value was Determined from R_s .				1.53E-03
RELATIVE COUNTING ERROR		=	178.9%	$\mu\text{Ci/g}$

Data Entry by: <i>Sharon L. Hatcher</i>	Date: 04/27/95
Approved by: <i>[Signature]</i>	Date: 27 Apr 95
Form 508101_C Rev. 1.3	

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	40172	37798
1165	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.92	1.92
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T549	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2322	0.2322
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.70E+00	2.54E+00
WB27810	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<9.7235E-4	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95	PERCENT SPIKE RECOVERY = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/(SVal) * 100$		
Time			
10:00 AM			

RESULT AVG. PERCENT SPIKE RECOVERY = 69.3%

Data Entry by: *Sharon L. Hatcher* Date: 27-Apr-95
 Approved by: *SSJ-H* Date: 27 Apr 95
 Form 508101_X Rev. 1.3

110

185

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP- 107, REV. 1

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

LA-548-101 (A-3) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	18	31
1185	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.274	2.274
Matrix	EFFICIENCY FACTOR (EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.330	0.433
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 5.63E-04	BOOK#
S95T553	Replicate Concentration in $\mu\text{Ci/g}$	7.39E-04	
Instrument Code			
WB27610	Maximum Concentration in $\mu\text{Ci/g}$	< 7.3934E-04	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/26/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
10:00 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 7.39E-04	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				
RELATIVE COUNTING ERROR		=	500.0%	1.28E-03 $\mu\text{Ci/g}$

Data Entry by: Sharon L. Hadden Date: 04/27/95
 Approved by: AKL Date: 27 Apr 95

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	23	17
1165	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.236	2.236
Matrix	EFFICIENCY FACTOR (EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.519	0.330
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 9.00E-04	BOOK#
S95T553	Replicate Concentration in $\mu\text{Ci/g}$	< 5.73E-04	
Instrument Code			
WB27810	Maximum Concentration in $\mu\text{Ci/g}$	< 9.0028E-04	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/28/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
10:00 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 9.00E-04	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				1.30E-03
RELATIVE COUNTING ERROR	=	500.0%		$\mu\text{Ci/g}$

Data Entry by:

Sharon L. Hallett

Date: 04/27/95

Approved by:

Sharon L. Hallett

Date: 27 Apr 95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

LA-548-101 (A-3) SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	36325	27337
1185	COUNT TIME in MINUTES (CT)	30	30
AT or IS ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.274	2.274
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T553	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2322	0.2322
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.06E+00	1.55E+00
WB27810	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<7.3934E-4	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95	PERCENT SPIKE RECOVERY = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/(SVal) * 100$		
Time			
10:00 AM			

RESULT AVG. PERCENT SPIKE RECOVERY = 56.6%

Data Entry by: *Sharon L. Utter*

Date: 27-Apr-95

Approved by: *[Signature]*

Date: 27 Apr 95

Form 508101_X Rev. 1.3

Page 1 of 1

RUSH

RUSH

13:30

worklistrpt Version 2.0 02/21/95
04/24/95 11:20

Page: 1

LABCORE Data Entry Template for Worklist# 1194

Analyst: AKL Instrument: AB00 15 Book # 107852
WB 26872
 Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample size. Use .100 mL A-SPK. Rerun #1. SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			QALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			QALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	4 SAMPLE	S95T000537	0 F	QALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000029	U-201	4 SAMPLE	S95T000537	0 F	QALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000029	U-201	5 DUP	S95T000537	0 F	QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	5 DUP	S95T000537	0 F	QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000029	U-201	6 SPK	S95T000537	0 F	QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	7 SAMPLE	S95T000541	0 F	QALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000029	U-201	8 DUP	S95T000541	0 F	QALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	8 DUP	S95T000541	0 F	QALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000029	U-201	9 SPK	S95T000541	0 F	QALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1194

Q Lewis 4/26/95
 Analyst Signature Date

Edison L. Halder 4-27-95
 Analyst Signature Date
4-27-95

Data Entry Comments:

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

WHC-SD-WM-DP-107, REV. 1

114

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

LA-548-101 (A-3) LIQUIDS

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	15	15
STANDARD	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	3638	3803
1194	COUNT TIME in MINUTES (CT)	30	30
AT 51157	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	120.667	126.167
Sample #	Sample Concentration in $\mu\text{Ci/L}$	2.28E-02	BOOK#
WRKLIST 1194	Replicate Concentration in $\mu\text{Ci/L}$	2.39E-02	107B52
Instrument Code			
WB28872	Average Concentration in $\mu\text{Ci/L}$	2.3358E-02	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/mL}$	(Average)	=	2.34E-05	DETECTION LEVEL
					1.42E-07
RELATIVE COUNTING ERROR			=	3.3%	$\mu\text{Ci/mL}$

Data Entry by: *Sharon L. Thibault* Date: 04/27/95
 Approved by: *365-365* Date: 27 Apr 95

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

LA-548-101 (A-3)

SOLIDS

Type	DETECTOR NUMBER	BLANK	REPLICATE
BLANK	DISH SIZE 1, 2, or 5 (MS)	15	15
Work List	TOTAL COUNTS (TC)	2	2
1194	COUNT TIME in MINUTES (CT)	15	15
AT or TR ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.6	0.6
Test Code	DILUTION FACTOR (DF)	0.100	0.100
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	2.0064	2.0064
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2380	0.2380
Sample #	Sample Concentration in $\mu\text{Ci/g}$	0.330	0.330
S95T537	Replicate Concentration in $\mu\text{Ci/g}$	< 3.11E-03	BOOK#
Instrument Code		< 3.11E-03	
WB26672	Maximum Concentration in $\mu\text{Ci/g}$	< 3.1129E-03	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/26/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 3.11E-03	DETECTION LEVEL
LESS Than Value was Determined from Lc.				7.08E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	=		500.0%	

Data Entry by: <i>Sharon L. H. H.</i>	Date: 04/27/95
Approved by: <i>227-16</i>	Date: 27 Apr 95
Form 508101_C Rev. 1.3	Page 1 of 1

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	9	18
1194	COUNT TIME in MINUTES (CT)	30	30
AT or B7	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.0064	2.0064
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	0.330	0.330
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 3.11E-03	BOOK#
S95T537	Replicate Concentration in $\mu\text{Ci/g}$	< 3.11E-03	
Instrument Code			
WB28672	Maximum Concentration in $\mu\text{Ci/g}$	< 3.1129E-03	
Analysis			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95			
Time	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 3.11E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.08E-03
RELATIVE COUNTING ERROR		=	500.0%	$\mu\text{Ci/g}$

Data Entry by: <i>Sharon J. H. H. H.</i>	Date: 04/27/95
Approved by: <i>Sharon J. H. H. H.</i>	Date: 27 Apr 95
Form 508101_C Rev. 1.3	

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	13	8
1194	COUNT TIME in MINUTES (CT)	30	30
AT or IS ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.006	2.006
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.330	0.330
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 3.11E-03	BOOK#
S95T537	Replicate Concentration in $\mu\text{Ci/g}$	< 3.11E-03	
Instrument Code			
WB26672	Maximum Concentration in $\mu\text{Ci/g}$	< 3.1135E-03	
Analyst			
AKL	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95			
Time	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 3.11E-03	DETECTION LEVEL
LESS Than Value was Determined from Lc.				7.08E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR		=	218.3%	

Data Entry by: *Sharon L. Uatkin*

Date: 04/27/95

Approved by: *AKL*

Date: 27 Apr 95

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	59419	50479
1194	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.0064	2.0064
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T537	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.87E+01	1.59E+01
WB26672	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<3.1129E-3	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95	$PERCENT \text{ SPIKE RECOVERY} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/(SVal))*100$		
Time			
01:30 PM			

RESULT AVG. PERCENT SPIKE RECOVERY = 95.3%

Data Entry by: *Sharon L. White* Date: 27-Apr-95
 Approved by: *AKL* Date: 27 Apr 95
 Form 508101_X Rev. 1.3 Page 1 of 1

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	15	15
1194	COUNT TIME in MINUTES (CT)	30	30
AT or 15.7	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.026	2.026
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.330	0.330
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 3.08E-03	BOOK#
S95T541	Replicate Concentration in $\mu\text{Ci/g}$	< 3.08E-03	
Instrument Code			
WB26672	Maximum Concentration in $\mu\text{Ci/g}$	< 3.0828E-03	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 3.08E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.01E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	=	500.0%		

Data Entry by: *Shannon L. Winkler*

Date: 04/27/95

Approved by: *AKL*

Date: 27 April

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

LA-548-101 (A-3) SOLIDS

		SAMPLE	REPLICATE
TYPE	DETECTOR NUMBER	15	15
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
WORK SHEET	TOTAL COUNTS (TC)	20	13
1194	COUNT TIME in MINUTES (CT)	30	30
AT SITE 1	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.0266	2.0266
EFF	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	0.406	0.330
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 3.79E-03	BOOK#
S95T541	Replicate Concentration in $\mu\text{Ci/g}$	< 3.08E-03	
Instrument Code			
WB26872	Maximum Concentration in $\mu\text{Ci/g}$	< 3.7886E-03	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/26/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
01:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 3.79E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.01E-03
RELATIVE COUNTING ERROR	=	500.0%		$\mu\text{Ci/g}$

Data Entry by: Sharon L. Hunter Date: 04/27/95
 Approved by: AKL Date: 27 Apr 95

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	51463	49641
1194	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.026	2.026
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T541	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.60E+01	1.55E+01
WB26872	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<3.0828E-3	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95	$PERCENT SPIKE RECOVERY = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100$		
Time			
01:30 PM			

RESULT **AVG. PERCENT SPIKE RECOVERY** = **87.7%**

Data Entry by: *Sharon L. Walker* Date: 27-Apr-95
 Approved by: *AKL* Date: 27 Apr 95
 Form 508101_X Rev. 1.3 Page 1 of 1

RUSH**RUSH**worklistrpt Version 2.0 02/21/95
04/25/95 07:30

Page: 1

LABCORE Data Entry Template for Worklist# 1204Analyst: AKL Instrument: AB00 16 Book # 107B52Method: LA-508-101 Rev/Mod 0-2WB 27806Worklist Comment: Sample size = boil down of .5 mL. Use .100 ml A-SPK. RR#1 SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	4 SAMPLE	S95T000615	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000029	U-201	4 SAMPLE	S95T000615	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000029	U-201	5 DUP	S95T000615	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	5 DUP	S95T000615	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000029	U-201	6 SPK	S95T000615	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	7 SAMPLE	S95T000622	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000029	U-201	7 SAMPLE	S95T000622	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000029	U-201	8 DUP	S95T000622	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000029	U-201	8 DUP	S95T000622	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000029	U-201	9 SPK	S95T000622	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 12049 Lewis 4/26/95Sharon Udd 4-27-95

Data Entry Comments:

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

WHC-SD-WM-DP- 107, REV. 1

LABCORE Data Entry Template for Worklist# 1204

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

Data Entry Comments:

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

WHC-SD-WM-DP-107, REV. 1

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

LA-548-101 (A-3) LIQUIDS

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	18	18
STANDARD	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	3819	3721
1204	COUNT TIME in MINUTES (CT)	30	30
AT or B7	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Tank Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	126.500	123.233
Sample #	Sample Concentration in $\mu\text{Ci/L}$	2.71E-02	BOOK#
WRKLIST 1204	Replicate Concentration in $\mu\text{Ci/L}$	2.64E-02	107B52
Instrument Code			
WB27806	Average Concentration in $\mu\text{Ci/L}$	2.6733E-02	

Analysis	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$
Date	$\text{ALPHA TOTAL } \mu\text{Ci/L} = R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$
04/26/95	$\text{ALPHA TOTAL } \mu\text{Ci/mL} = \text{ALPHA TOTAL } \mu\text{Ci/L} / 1000\text{mL/L}$
Time	$\text{Relative Counting Error} = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$
10:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/mL}$ (Average)	=	2.67E-05	DETECTION LEVEL
				1.83E-07 $\mu\text{Ci/mL}$
RELATIVE COUNTING ERROR		=	3.2%	

Data Entry by:

Date: 04/27/95

Approved by:

Date: 27 Apr 95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

LA-548-101 (A-3)

SOLIDS

		BLANK	REPLICATE
Type	DETECTOR NUMBER	18	18
BLANK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	12	10
1204	COUNT TIME in MINUTES (CT)	30	30
AT or B7	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9444	1.9444
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.381	0.381
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 8.39E-04	BOOK#
S95T615	Replicate Concentration in $\mu\text{Ci/g}$	< 8.39E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 8.3913E-04	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/26/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
10:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 8.39E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.				1.88E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	=	98.0%		

Data Entry by: *Shannon L. Winters* Date: 04/27/95
 Approved by: *[Signature]* Date: 27 Apr 95
 Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-107, REV. 1

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
TYPE	DETECTOR NUMBER	18	18
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	27	18
1204	COUNT TIME in MINUTES (CT)	30	30
AT 57187	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9444	1.9444
MS675	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	0.493	0.381
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 1.09E-03	BOOK#
S95T615	Replicate Concentration in $\mu\text{Ci/g}$	< 8.39E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 1.0852E-03	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/26/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
10:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 1.09E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				1.88E-03
RELATIVE COUNTING ERROR	=	500.0%		$\mu\text{Ci/g}$

Data Entry by: *Sharon L. Venable*

Date: 04/27/95

Approved by: *[Signature]*

Date: 27 Apr 95

Form 508101_C Rev. 1.3

Page 1 of 1

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	22	16
1204	COUNT TIME in MINUTES (CT)	30	30
AT or 15?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9464	1.9464
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.381	0.381
Sample 5	Sample Concentration in $\mu\text{Ci/g}$	< 8.38E-04	BOOK#
S95T615	Replicate Concentration in $\mu\text{Ci/g}$	< 8.38E-04	
Instrument Code			
WB27606	Maximum Concentration in $\mu\text{Ci/g}$	< 8.3827E-04	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
10:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 8.38E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.				1.88E-03
RELATIVE COUNTING ERROR	=	500.0%		$\mu\text{Ci/g}$

Data Entry by: *Sharon L. Heston*

Date: 04/27/95

Approved by: *W. J. Smith*

Date: 27 Apr 95

Form 508101_C Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-107, REV. 1

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	33842	31261
1204	COUNT TIME in MINUTES (CT)	30	30
AT or IS-7	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9444	1.9444
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T615	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.48E+00	2.29E+00
WB27810	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<1.0852E-3	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95	$PERCENT \text{ SPIKE RECOVERY} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L))))/SVal * 100$		
Time			
10:30 AM			

RESULT AVG. PERCENT SPIKE RECOVERY = 63.8%

Data Entry by: *Shirley Diaz* 4/28/95 Date: 27-Apr-95
 Approved by: *Shirley Diaz* Date: 27 Apr 95
 Form 508101_X Rev. 1.3 Page 1 of 1

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	18	18
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	19	19
1204	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9448	1.9448
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.381	0.381
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 8.39E-04	BOOK#
S951622	Replicate Concentration in $\mu\text{Ci/g}$	< 8.39E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 8.3896E-04	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/26/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
10:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 8.39E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.				1.88E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: Sharon L. Ulathe Date: 04/27/95
 Approved by: [Signature] Date: 27 Apr 95
 Form 508101_C Rev. 1.3 Page 1 of 1

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
DETECTOR NUMBER		16	16
DISH SIZE 1, 2, or 5 (MS)		2	2
TOTAL COUNTS (TC)		24	26
COUNT TIME in MINUTES (CT)		30	30
BACKGROUND in cpm (BKG)		0.8	0.8
SAMPLE SIZE in mL (SS)		0.500	0.500
DILUTION FACTOR (DF)		1	1
DIGEST GRAMS of SOLIDS/L (Dg/L)		1.952	1.952
EFFICIENCY FACTOR (EFF)		0.2104	0.2104
Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE		0.381	0.530
Sample Concentration in $\mu\text{Ci/g}$	<	8.36E-04	BOOK#
Replicate Concentration in $\mu\text{Ci/g}$	<	1.16E-03	
Maximum Concentration in $\mu\text{Ci/g}$	<	1.1625E-03	
Rs (Sample Count Rate) = (TC / CT) - BKG			
ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)			
Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100			
Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 1.16E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				1.87E-03
RELATIVE COUNTING ERROR	=	500.0%		$\mu\text{Ci/g}$

Data Entry by:

Sharon L. Lattin

Date: 04/27/95

Approved by:

SSG

Date: 27 Apr 95

Form 508101_C Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-107, REV.1

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	23507	29807
1204	COUNT TIME in MINUTES (CT)	30	30
AT or IS ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9448	1.9448
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T622	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.72E+00	2.19E+00
WB27810	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<8.3896E-4	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/26/95	$PERCENT \text{ SPIKE RECOVERY} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100$		
Time			
10:30 AM			

RESULT AVG. PERCENT SPIKE RECOVERY = 52.3%

Data Entry by: *Sharon L. White* Date: 27-Apr-95
 Approved by: *AKL* Date: 27 Apr 95
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WHC-SD-WM-DP-107, REV. 1

THE FOLLOWING ANALYSES ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

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LABCORE Data Entry Template for Worklist# 1157

Analyst: AKL Instrument: AB00 15 Book # 107B52
WB 26872
Method: LA-508-101 Rev/Mod D-2

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

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DATA	ALPHA01 ALPHA01	SOLID		N/A	uCi/g
		1 STD			NOT USED	ALPHA01 ALPHA01E	SOLID		N/A	% Ct. Error
		2 BLNK-PREP			IN PACKAGE	ALPHA01 ALPHA01	SOLID		N/A	uCi/g
		2 BLNK-PREP				ALPHA01 ALPHA01E	SOLID		N/A	% Ct. Error
		3 BLNK/BKG	.67			ALPHA01 ALPHA01	SOLID		N/A	uCi/g
95000029	U-201	4 SAMPLE	S95T000537	0 F		ALPHA01 ALPHA01	SOLID	N/A		uCi/g
95000029	U-201	4 SAMPLE	S95T000537	0 F		ALPHA01 ALPHA01E	SOLID	N/A		% Ct. Error
95000029	U-201	5 DUP	S95T000537	0 F		ALPHA01 ALPHA01	SOLID		N/A	uCi/g
95000029	U-201	5 DUP	S95T000537	0 F		ALPHA01 ALPHA01E	SOLID		N/A	% Ct. Error
95000029	U-201	6 SPK	S95T000537	0 F		ALPHA01 ALPHA01	SOLID		N/A	uCi/g
95000029	U-201	7 SAMPLE	S95T000541	0 F		ALPHA01 ALPHA01	SOLID	N/A		uCi/g
95000029	U-201	7 SAMPLE	S95T000541	0 F		ALPHA01 ALPHA01E	SOLID	N/A		% Ct. Error
95000029	U-201	8 DUP	S95T000541	0 F		ALPHA01 ALPHA01	SOLID		N/A	uCi/g
95000029	U-201	8 DUP	S95T000541	0 F		ALPHA01 ALPHA01E	SOLID		N/A	% Ct. Error
95000029	U-201	9 SPK	S95T000541	0 F		ALPHA01 ALPHA01	SOLID		N/A	uCi/g

Final page for worklist # 1157

Alita Lewis 4/19/95

Shawn Maliken 4-21-95

Data Entry Comments:

SPK + SPK replicate RPD is out of method
control limits - samples will be rerun. AKL 4/24/95

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

LABCORE Data Entry Template for Worklist# 1157

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

DATA
NOT USED
IN PACKAGE

Data Entry Comments:

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

DATA
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IN PACKAGE

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

LA-548-101 (A-3) LIQUIDS

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	15	15
STANDARD	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	4372	4254
1157	COUNT TIME in MINUTES (CT)	30	30
AT or 157	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	145.333	141.733
Sample #	Sample Concentration in $\mu\text{Ci/L}$	2.75E-02	BOOK#
WRKLIST 1157	Replicate Concentration in $\mu\text{Ci/L}$	2.68E-02	107B52
Instrument Code			
WB26872	Average Concentration in $\mu\text{Ci/L}$	2.7168E-02	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$\text{ALPHA TOTAL } \mu\text{Ci/L} = R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
04/19/95	$\text{ALPHA TOTAL } \mu\text{Ci/mL} = \text{ALPHA TOTAL } \mu\text{Ci/L} / 1000\text{mL/L}$		
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/mL}$	(Average)	=	2.72E-05	DETECTION LEVEL
					1.19E-07
RELATIVE COUNTING ERROR			=	3.0%	$\mu\text{Ci/mL}$

Data Entry by:

Date: 04/21/95

Approved by:

Date: 4/21/95

Form 508101_C Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		BLANK	REPLICATE
Type	DETECTOR NUMBER	15	15
BLANK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	9	7
1157	COUNT TIME in MINUTES (CT)	30	30
A197187	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.0064	2.0064
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.269	0.269
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 2.54E-03	BOOK#
S95T537	Replicate Concentration in $\mu\text{Ci/g}$	< 2.54E-03	
Instrument Code			
WB26672	Maximum Concentration in $\mu\text{Ci/g}$	< 2.5417E-03	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/19/95			
Time	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 2.54E-03	DETECTION LEVEL
LESS Than Value was Determined from Lc.				5.94E-03
RELATIVE COUNTING ERROR	=	500.0%		$\mu\text{Ci/g}$

Data Entry by: <i>Sharon Hoffer</i>	Date: 04/21/95
Approved by: <i>[Signature]</i>	Date: 4/21/95
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DATA
NOT USED
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AT : LA-508-101 (D-2)

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
DETECTOR NUMBER		15	15
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	15	26
1157	COUNT TIME in MINUTES (CT)	30	30
AT	BACKGROUND in cpm (BKG)	0.4	0.4
Test Code	SAMPLE SIZE in mL (SS)	0.100	0.100
ALPHA01	DILUTION FACTOR (DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.0064	2.0064
SOLID	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
Sample #	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.386	0.467
S95T537	Sample Concentration in $\mu\text{Ci/g}$ <	3.64E-03	BOOK#
Instrument Code	Replicate Concentration in $\mu\text{Ci/g}$	4.40E-03	
WB26872	Maximum Concentration in $\mu\text{Ci/g}$ <	4.4021E-03	
Analyst	Rs (Sample Count Rate) = (TC / CT) - BKG		
AKL	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Date	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
04/19/95	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Time			
03:00 PM			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$ (Maximum) =	< 4.40E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rs.			5.94E-03
RELATIVE COUNTING ERROR	=	500.0%	$\mu\text{Ci/g}$

Data Entry by: <i>Sharon L. [Signature]</i>	Date: 04/21/95
Approved by: <i>[Signature]</i>	Date: 4/21/95
Form 508101_C Rev. 1.3	Page 1 of 1

DATA
NOT USED
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AT : LA-508-101 (D-2)

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	26	15
1157	COUNT TIME in MINUTES (CT)	30	30
AT or 157	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.006	2.006
MAF01	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.467	0.386
Sample #	Sample Concentration in $\mu\text{Ci/g}$	4.40E-03	BOOK#
S95T537	Replicate Concentration in $\mu\text{Ci/g}$	< 3.64E-03	
Instrument Code			
WB26872	Maximum Concentration in $\mu\text{Ci/g}$	< 4.4030E-03	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/19/95			
Time	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 4.40E-03	DETECTION LEVEL
LESS THAN Value was Determined from R_s .				5.94E-03
RELATIVE COUNTING ERROR	=	339.5%		$\mu\text{Ci/g}$

Data Entry by:

Date:

04/21/95

Approved by:

Date:

4/21/95

Form 508101_C Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-107, REV. 1

DATA
NOT USED
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AT : LA-508-101 (D-2)

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	39264	65612
1157	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.0064	2.0064
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T537	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.23E+01	2.06E+01
WB28672	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<4.4021E-3	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = (TC / CT) - BKG		
Date	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s \cdot 1000\text{mL/L} \cdot \text{DF} / (\text{EFF} \cdot \text{SS} \cdot \text{Dg/L} \cdot 2220000\text{dpm}/\mu\text{Ci})$		
04/19/95	PERCENT SPIKE RECOVERY = $((\text{S+S } \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) \cdot ((\text{SDF}/\text{SVol})/(\text{DF}/\text{SS}/\text{Dg/L}))) / \text{SVal} \cdot 100$		
Time			
03:00 PM			

RESULT AVG. PERCENT SPIKE RECOVERY = 90.9%

Data Entry by:

Sharon L. H. Fisher

Date: 21-Apr-95

Approved by:

Date: 4/21/95

Form 508101_X Rev. 1.3

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	21	19
1157	COUNT TIME in MINUTES (CT)	30	30
AT 508-101	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.026	2.026
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.300	0.540
Sample #	Sample Concentration in $\mu\text{Ci/g}$	2.80E-03	BOOK#
S95T541	Replicate Concentration in $\mu\text{Ci/g}$	< 5.04E-03	
Instrument Code			
WB26872	Maximum Concentration in $\mu\text{Ci/g}$	< 5.0405E-03	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/19/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 5.04E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				5.88E-03
RELATIVE COUNTING ERROR	=	155.9%		$\mu\text{Ci/g}$

Data Entry by: Sharon L. Goff Date: 04/21/95
 Approved by: [Signature] Date: 4/21/95
 Form 508101_C Rev. 1.3 Page 1 of 1

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	19	22
1157	COUNT TIME in MINUTES (CT)	30	30
AT or IS ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.0268	2.0268
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.540	0.333
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 5.04E-03	BOOK#
S95T541	Replicate Concentration in $\mu\text{Ci/g}$	3.11E-03	
Instrument Code			
WB26872	Maximum Concentration in $\mu\text{Ci/g}$	< 5.0385E-03	
Analyst			
AKL	R_s (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s \times 1000\text{mL/L} \times \text{DF} / (\text{EFF} \times \text{SS} \times \text{Dg/L} \times 2220000\text{dpm}/\mu\text{Ci})$		
04/19/95			
Time	Relative Counting Error = $[(\text{The Square Root of } \text{TC} + \text{BKG} \times \text{CT}) / (\text{TC} - \text{BKG} \times \text{CT})] \times 1.96 \times 100$		
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 5.04E-03	DETECTION LEVEL
LESS THAN Value was Determined from R_s .				5.88E-03
RELATIVE COUNTING ERROR	=	155.9%		$\mu\text{Ci/g}$

Data Entry by: *Shayna L. Claff* Date: 04/21/95
 Approved by: *[Signature]* Date: 4/21/95
 Form 508101_C Rev. 1.3 Page 1 of 1

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	48084	60547
1157	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.026	2.026
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T541	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.50E+01	1.89E+01
WB26872	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<5.0405E-3	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / ((EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci}))$		
04/19/95	PERCENT SPIKE RECOVERY = $((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L))) / SVal * 100$		
Time			
03:00 PM			

RESULT AVG. PERCENT SPIKE RECOVERY = 94.2%

Data Entry by: <i>Sharon L. Goff</i>	Date: 21-Apr-95
Approved by: <i>[Signature]</i>	Date: 4/21/95

LABCORE Data Entry Template for Worklist# 1140

Analyst: AKL Instrument: AB00 16 Book # 107853

Method: LA-508-101 Rev/Mod D-2 WB 2780C

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

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			0ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			0ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			0ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			0ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG	.07		0ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	4 SAMPLE	S95T000549	0	0ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000033	U-201	4 SAMPLE	S95T000549	0	0ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000033	U-201	5 DUP	S95T000549	0	0ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	5 DUP	S95T000549	0	0ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000033	U-201	6 SPK	S95T000549	0	0ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	7 SAMPLE	S95T000553	0 F	0ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000033	U-201	7 SAMPLE	S95T000553	0 F	0ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000033	U-201	8 DUP	S95T000553	0 F	0ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000033	U-201	8 DUP	S95T000553	0 F	0ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000033	U-201	9 SPK	S95T000553	0 F	0ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1140

A. Lewis 4/17/95

SL Holder 4-18-95

Data Entry Comments:

SPK recoveries are out of control limits.

Samples will be rerun. At 4/20/95

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

LABCORE Data Entry Template for Worklist# 1140

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

DATA
NOT USED
IN PACKAGE

Data Entry Comments:

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

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

LIQUIDS

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	16	16
STANDARD	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	3952	4253
1140	COUNT TIME in MINUTES (CT)	30	30
AT or 15.7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	131.233	141.267
Sample #	Sample Concentration in $\mu\text{Ci/L}$	2.81E-02	BOOK#
WRKLST 1140	Replicate Concentration in $\mu\text{Ci/L}$	3.02E-02	107B52
Instrument Code			
WB27806	Average Concentration in $\mu\text{Ci/L}$	2.9170E-02	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
04/17/95	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
04:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/mL}$	(Average) =	2.92E-05	DETECTION LEVEL
				1.48E-07 $\mu\text{Ci/mL}$
RELATIVE COUNTING ERROR		=	3.1%	

Data Entry by: <i>Sharon L. Halder</i>	Date: 04/18/95
Approved by: <i>[Signature]</i>	Date: 4/18/95

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		BLANK	REPLICATE
Type	DETECTOR NUMBER	16	16
BLANK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	1	1
1140	COUNT TIME in MINUTES (CT)	30	30
AT or ID 7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.92	1.92
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.301	0.301
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 3.36E-04	BOOK#
S95T549	Replicate Concentration in $\mu\text{Ci/g}$	< 3.36E-04	
Instrument Code			
WB27606	Maximum Concentration in $\mu\text{Ci/g}$	< 3.3591E-04	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/17/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
04:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 3.36E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.				7.73E-04 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	=		56.0%	

Data Entry by: <i>Sharon L. Hagan</i>	Date: 04/18/95
Approved by: <i>[Signature]</i>	Date: 4/18/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-107, REV 1

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	27	10
1140	COUNT TIME in MINUTES (CT)	30	30
AT or 15.7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.92	1.92
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.400	0.301
Sample #	Sample Concentration in $\mu\text{Ci/g}$	4.46E-04	BOOK#
S95T549	Replicate Concentration in $\mu\text{Ci/g}$	< 3.36E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 4.4603E-04	
Analyst			
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/17/95			
Time	Relative Counting Error = $\left[\frac{\sqrt{(\text{The Square Root of TC} + \text{BKG} * \text{CT})}}{(\text{TC} - \text{BKG} * \text{CT})} \right] * 1.96 * 100$		
04:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL in $\mu\text{Ci/g}$ (Maximum) =	< 4.46E-04	DETECTION LEVEL
LESS THAN Value was Determined from Rs.		7.73E-04 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR =	196.0%	

Data Entry by: <i>Sharon H. H. H.</i>	Date: 04/18/95
Approved by: <i>Sharon H. H. H.</i>	Date: 4/18/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	18	18
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	13	22
1140	COUNT TIME in MINUTES (CT)	30	30
AT 01157	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9068	1.9068
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.301	0.568
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 3.38E-04	BOOK#
S95T549	Replicate Concentration in $\mu\text{Ci/g}$	< 6.38E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 6.3761E-04	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/17/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
04:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 6.38E-04	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				7.78E-04
RELATIVE COUNTING ERROR		=	500.0%	$\mu\text{Ci/g}$

Data Entry by: *[Signature]* Date: 04/18/95
 Approved by: *[Signature]* Date: 4/18/95
 Form 508101_C Rev. 1.3 Page 1 of 1

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3) SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	30208	29392
1140	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.92	1.92
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T549	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.12E+00	1.09E+00
WB27806	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	<4.4603E-4	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/17/95	PERCENT SPIKE RECOVERY = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/(SVal) * 100$		
Time			
04:00 PM			

RESULT AVG. PERCENT SPIKE RECOVERY = 58.4%

Data Entry by: *[Signature]* Date: 18-Apr-95
 Approved by: *[Signature]* Date: 4/18/95
 Form 508101_X Rev. 1.3 Page 1 of 1

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	18	18
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	15	21
1140	COUNT TIME in MINUTES (CT)	30	30
AT or B7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.274	2.274
Mark	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.301	0.530
Sample 1	Sample Concentration in $\mu\text{Ci/g}$	< 2.84E-04	BOOK#
S95T553	Replicate Concentration in $\mu\text{Ci/g}$	< 4.99E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 4.9898E-04	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/17/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
04:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

RESULTS

ALPHA TOTAL	in $\mu\text{Ci/g}$ (Maximum) =	< 4.99E-04	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.			6.53E-04
RELATIVE COUNTING ERROR	=	500.0%	$\mu\text{Ci/g}$

Data Entry by:	<i>Sharon Hall</i>	Date:	04/18/95
Approved by:	<i>[Signature]</i>	Date:	4/18/95

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Loc	TOTAL COUNTS (TC)	9	12
1140	COUNT TIME in MINUTES (CT)	30	30
AT 511B7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA001	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.236	2.236
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.301	0.301
Sample #	Sample Concentration in $\mu\text{Ci/g}$	< 2.88E-04	BOOK#
S95T553	Replicate Concentration in $\mu\text{Ci/g}$	< 2.88E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 2.8844E-04	
Analyst			
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/17/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
04:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 2.88E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.				6.64E-04
RELATIVE COUNTING ERROR		=	339.5%	$\mu\text{Ci/g}$

Data Entry by: <i>Sharon P. Halden</i>	Date: 04/18/95
Approved by: <i>RE</i>	Date: 4/18/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP- 107, REV. 1DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	28010	27783
1140	COUNT TIME in MINUTES (CT)	30	30
AT 6718.7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	2.274	2.274
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T553	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	8.16E-01	8.71E-01
WB27808	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	24.9898E-4	
Analyst	BOOK#	94B43	
AKL	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/17/95	PERCENT SPIKE RECOVERY = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L))) / (SVal) * 100$		
Time			
04:00 PM			

RESULT **AVG. PERCENT SPIKE RECOVERY** = **52.7%**

Data Entry by: Sharon L. Hapley Date: 18-Apr-95
 Approved by: [Signature] Date: 4/18/95
 Form 508101_X Rev. 1.3 Page 1 of 1

LABCORE Data Entry Template for Worklist# 1189

Analyst: KGH

Instrument: AB00 16
WB27806

Book # 107B52

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

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

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
1-2		1 STD			2ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			2ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
3-4		2 BLNK-PREP			2ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			2ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG	<u>.57</u>		2ALPHA01 ALPHA01	SOLID			N/A	uCi/g
5-6	95000029	U-201	4 SAMPLE	S95T000615	0 F 2ALPHA01 ALPHA01	SOLID	N/A			uCi/g
	95000029	U-201	4 SAMPLE	S95T000615	0 F 2ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
7-8	95000029	U-201	5 DUP	S95T000615	0 F 2ALPHA01 ALPHA01	SOLID			N/A	uCi/g
	95000029	U-201	5 DUP	S95T000615	0 F 2ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
9-10	100029	U-201	6 SPK	S95T000615	0 F 2ALPHA01 ALPHA01	SOLID			N/A	uCi/g
11-12	95000029	U-201	7 SAMPLE	S95T000622	0 F 2ALPHA01 ALPHA01	SOLID	N/A			uCi/g
	95000029	U-201	7 SAMPLE	S95T000622	0 F 2ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
13-14	95000029	U-201	8 DUP	S95T000622	0 F 2ALPHA01 ALPHA01	SOLID			N/A	uCi/g
	95000029	U-201	8 DUP	S95T000622	0 F 2ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
15-16	95000029	U-201	9 SPK	S95T000622	0 F 2ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 1189

4-24-95

Sharon L Holden 4-24-95

Data Entry Comments:

SPK recoveries are below project limits. Both will
be rerun. at mfl 4/5/95

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

LABCORE Data Entry Template for Worklist# 1189

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

DATA
NOT USED
IN PACKAGE

Data Entry Comments:

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

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

LIQUIDS

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	16	16
STANDARD	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	4226	4583
1189	COUNT TIME in MINUTES (CT)	30	30
AT or 1B 7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	140.367	152.267
Sample #	Sample Concentration in $\mu\text{Ci/L}$	3.01E-02	BOOK#
WRKLIST 1189	Replicate Concentration in $\mu\text{Ci/L}$	3.26E-02	107B52
Instrument Code			
WB27806	Average Concentration in $\mu\text{Ci/L}$	3.1325E-02	
Analyst			
KGH	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/L}$ = $Rs * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
04/22/95	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Time	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/mL}$	(Average) =	3.13E-05	DETECTION LEVEL
				1.48E-07 $\mu\text{Ci/mL}$
RELATIVE COUNTING ERROR		=	3.0%	

Data Entry by: *Sharon L. Hall* Date: 04/24/95
 Approved by: *[Signature]* Date: 4/24/95
 Form 508101_C Rev. 1.3 Page 1 of 1

DATA
NOT USED
IN PACKAGE

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

LA-548-101 (A-3)

SOLIDS

		BLANK	REPLICATE
Type	DETECTOR NUMBER	16	16
BLANK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	9	8
1189	COUNT TIME in MINUTES (CT)	30	30
AT or 15.7	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9444	1.9444
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.301	0.301
Sample 3	Sample Concentration in $\mu\text{Ci/g}$	< 3.32E-04	BOOK#
S95T615	Replicate Concentration in $\mu\text{Ci/g}$	< 3.32E-04	
Instrument Code			
WB27806	Maximum Concentration in $\mu\text{Ci/g}$	< 3.3170E-04	
Analyst			
KGH	Rs (Sample Count Rate) = (TC / CT) - BKG		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
04/22/95			
Time	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Maximum) =	< 3.32E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.				7.63E-04
RELATIVE COUNTING ERROR		=	160.0%	$\mu\text{Ci/g}$

Data Entry by: <i>Sharon H. Hester</i>	Date: 04/24/95
Approved by: <i>[Signature]</i>	Date: 4/24/95
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DATA
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AT : LA-508-101 (D-2)

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	41	46
1189	COUNT TIME in MINUTES (CT)	30	30
AT or 157	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9444	1.9444
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.867	1.033
Sample #	Sample Concentration in $\mu\text{Ci/g}$	9.54E-04	BOOK#
S95T615	Replicate Concentration in $\mu\text{Ci/g}$	1.14E-03	
Instrument Code			
WB27606	Average Concentration in $\mu\text{Ci/g}$	1.0460E-03	
Analyst			
KGH	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/22/95			
Time	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Average)	=	1.05E-03	DETECTION LEVEL
					7.63E-04
RELATIVE COUNTING ERROR			=	56.4%	$\mu\text{Ci/g}$

Data Entry by: <i>Sharon L. Hight</i>	Date: 04/24/95
Approved by: <i>[Signature]</i>	Date: 4/24/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
DETECTOR NUMBER		16	16
DISH SIZE 1, 2, or 5 (MS)		2	2
TOTAL COUNTS (TC)		41	44
COUNT TIME in MINUTES (CT)		30	30
BACKGROUND in cpm (BKG)		0.5	0.5
SAMPLE SIZE in mL (SS)		1.000	1.000
DILUTION FACTOR (DF)		1	1
DIGEST GRAMS of SOLIDS/L (Dg/L)		1.9464	1.9464
EFFICIENCY FACTOR (EFF)		0.2104	0.2104
Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE		0.867	0.967
Sample Concentration in $\mu\text{Ci/g}$		9.53E-04	BOOK#
Replicate Concentration in $\mu\text{Ci/g}$		1.06E-03	
Average Concentration in $\mu\text{Ci/g}$		1.0083E-03	
Rs (Sample Count Rate) = (TC / CT) - BKG			
ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)			
Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100			
Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL in $\mu\text{Ci/g}$ (Average)	=	1.01E-03	DETECTION LEVEL
			7.62E-04 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	=	56.4%	

Data Entry by: <i>[Signature]</i>	Date: 04/24/95
Approved by: <i>[Signature]</i>	Date: 4/24/95
Form 508101_C Rev. 1.3	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

LA-548-101 (A-3) SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	32538	38647
1189	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9444	1.9444
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T615	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.19E+00	1.42E+00
WB27806	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	1.0460E-03	
Analyst	BOOK#	94B43	
KGH	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/22/95	PERCENT SPIKE RECOVERY = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/(SVal)*100$		
Time			
02:00 PM			

RESULT **AVG. PERCENT SPIKE RECOVERY** = **69.7%**

Data Entry by: *[Signature]* Date: 24-Apr-95
 Approved by: *[Signature]* Date: 4/24/95
 Form 508101_X Rev. 1.3 Page 1 of 1

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Line	TOTAL COUNTS (TC)	50	56
1189	COUNT TIME in MINUTES (CT)	30	30
A or B ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9448	1.9448
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	1.167	1.367
Sample #	Sample Concentration in $\mu\text{Ci/g}$	1.28E-03	BOOK#
S95T622	Replicate Concentration in $\mu\text{Ci/g}$	1.50E-03	
Instrument Code			
WB27806	Average Concentration in $\mu\text{Ci/g}$	1.3944E-03	
Analyst			
KGH	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/22/95			
Time	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Average)	=	1.39E-03	DETECTION LEVEL
					7.63E-04 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR			=	45.1%	

Data Entry by: <i>Sharon L. Mappin</i>	Date: 04/24/95
Approved by: <i>[Signature]</i>	Date: 4/24/95

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

LA-548-101 (A-3)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
DUPLICATE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	67	49
1189	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.952	1.952
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	1.733	1.133
Sample #	Sample Concentration in $\mu\text{Ci/g}$	1.90E-03	BOOK#
S95T622	Replicate Concentration in $\mu\text{Ci/g}$	1.24E-03	
Instrument Code			
WB27806	Average Concentration in $\mu\text{Ci/g}$	1.5721E-03	
Analyst			
KGH	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/22/95			
Time	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	(Average)	=	1.57E-03	DETECTION LEVEL
					7.60E-04 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR			=	46.1%	

Data Entry by: *Sharon L. Updegraff*

Date: 04/24/95

Approved by: *AS*

Date: 4/24/95

Form 508101_C Rev. 1.3

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

LA-548-101 (A-3)

SOLIDS

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPIKE	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	33022	32574
1189	COUNT TIME in MINUTES (CT)	30	30
AT or IS?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L (Dg/L)	1.9448	1.9448
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Sample #	SPIKE VALUE in $\mu\text{Ci/L}$ (SVal)	36.372	36.372
S95T622	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.21E+00	1.19E+00
WB27806	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ from FORM C	1.3944E-03	
Analyst	BOOK#	94B43	
KGH	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Date	$SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
04/22/95	PERCENT SPIKE RECOVERY = $((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal * 100$		
Time			
02:00 PM			

RESULT **AVG. PERCENT SPIKE RECOVERY** = **64.2%**

Data Entry by: *Sharon J. Hurlbut* Date: 24-Apr-95
 Approved by: *[Signature]* Date: 4/24/95
 Form 508101_X Rev. 1.3 Page 1 of 1

Westinghouse
Hanford Company

P.O. Box 1970 Richland, WA 99352

PART II

WHC-SD-WM-DP-107, REV. 1

WHC-SD-WM-DP-107, REV. 0

ANALYTICAL SERVICES

45-DAY SAFETY SCREEN RESULTS FOR
TANK 241-U-201, PUSH MODE, CORES 70, 73 AND 74

DATE PRINTED:

APRIL 28, 1995

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NARRATIVE

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45-DAY SAFETY SCREEN RESULTS FOR TANK 241-U-201,
PUSH MODE, CORES 70, 73, & 74ANALYTICAL SUMMARY

Three core samples, each having two segments, from tank 241-U-201 (U-201) were received by the 222-S Laboratories. Safety screening analysis, such as differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), and total alpha activity were conducted on Core 70, Segment 1 and 2 and on Core 73, Segment 1 and 2 in accordance with reference (1) below. Core 74, segment 1 and 2 were taken to test rotary bit in push mode sampling. No analysis was requested on Core 74, Segment 1 and 2. Analytical results for the TGA analyses for Core 70, Segment 1, Upper half solid sample was less than the safety screening notification limit of 17 percent water. Notification was made on April 27, 1995. No exotherm was associated with this sample.

SAMPLE RECEIPT AND EXTRUSIONCORE 70, SEGMENT 1 (Riser 2)

Core 70, Segment 1 was sampled on 3/15/95, and received at the 222-S laboratory on 3/16/95. This segment was extruded on 3/28/95. Collected 193 gms of solid material and 35 gms of drainable liquid. No liner liquid was observed. The solid material was yellow in color with large chunks of crystals, did not retain the shape of the sampler. The 4 inches of material next to the sampler valve contained less crystals and was saved as upper half solids (jar #6605). The remaining material was saved as lower half solids (jar # 6579, contained more crystalline material than the upper half). Also noted some small black spots of material located throughout the solids. All the drainable liquid was collected in jar #6604. Analysis and sample archiving requirements were performed on Core 70, segment 1 subsamples in accordance with reference (1).

CORE 70, SEGMENT 2 (Riser 2)

Core 70, Segment 2 was sampled on 3/15/95, and received at the 222-S laboratories on 3/16/95. This segment was extruded on 3/28/95. Collected 259 gms of solid material and 59 gms of drainable liquid. Large crystalline solids were the first to extrude followed by about 4 to 5 inches of yellow sludge. Sludge material retained the shape of the sampler then tended to melt on the sampler tray due to the moisture content. Divided the sample into the crystalline lower half segment (jar # 6609) and the sludge upper half segment (jar # 6606). The drainable liquid was saved in jar # 6698. Analysis and sample archiving requirements were performed on Core 70, segment 2 subsamples in accordance with reference (1).

CORE 73, SEGMENT 1 (Riser 6)

Core 73, Segment 1 was sampled on 3/16/95, and received at the 222-S laboratories on 3/17/95. This segment was extruded on 3/30/95. Collected 17 gms of solid material and 142 gms of drainable liquid. Solids did not retain the shape of the sampler. Solid yellow sludge was mixed with large chunks of crystals. All the solids were collected in jar # 6675 and all the drainable liquids in jar # 6703. There was 4.31 gms of liner liquid collected which was saved in jar # 6752. This liquid was not analyzed. Analysis and sample archiving requirements were performed on Core 73, segment 1 sub samples in accordance with reference (1).

CORE 73, SEGMENT 2 (Riser 6)

Core 73, Segment 2 was sampled on 3/16/95, and received at the 222-S laboratories on 3/17/95. This segment was extruded on 3/30/95. Collected 132 gms of solid material and 117 gms of drainable liquid. Solids did not retain the shape of the sampler. Large crystalline solids were extruded near the end of extrusion. All the solids were collected in jar # 6705 and all the drainable liquids in jar # 6704. There was 2.88 gms of liner liquid collected which was saved in jar # 6753. This liquid was not analyzed. Analysis and sample archiving requirements were performed on Core 73, segment 2 subsamples in accordance with reference (1).

CORE 74, SEGMENT 1 (Riser 6)

Core 74, Segment 1 was sampled on 3/17/95, and received at the 222-S laboratories on 3/20/95. This segment was extruded on 3/30/95. Collected 111.35 gms of solid material and 159.63 gms of drainable liquid. Noticed black specks in the sludge sample. All the solids were collected in jar # 6680 and all the drainable liquids in jar # 6706. There was no liner liquid observed. No analysis was done on Core 74, segment 1 subsamples.

CORE 74, SEGMENT 2 (Riser 6)

Core 74, Segment 2 was sampled on 3/17/95, and received at the 222-S laboratories on 3/20/95. This segment was extruded on 3/30/95. Was able to extrude about half of the sample. The piston stuck inside the sampler about midway through the extrusion. Extruded 105 gms of yellow crystalline solid material (fine crushed ice consistency), saved in jar # 6677 and 88 gms of drainable liquid saved in jar # 6707. On 3/31/95, tried to extrude the remaining sample with the hydraulic extruder. Still could not move the piston. Collected the solid sample near the valve end with a spatula and saved in jar # 6678 as post extrusion solids. No analysis was done on Core 74, segment 2 samples.

ANALYTICAL RESULTS

Analytical results are presented in Tables 1 to 4, 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. None of the samples exhibited any exotherms above the instrument detection limit, therefore no dry results appear on the analytical tables. All precision and accuracy requirements were met.

TGA (Moisture Content)

Weight percent water was performed under a nitrogen atmosphere using procedure LA-560-112, Rev. A-2. The results for Core 70, Segment 1, Upper half solids were less than the notification limit of 17 weight percent water. An immediate notification was made as per the reference below. The RPD values between the samples and their duplicates ranged from 0.33 to 14.3 %, and most of them met the TCP specified precision requirement of 10%. The Laboratory Measurement Control System (LMCS) control standard exhibited a recovery ranging from 97.50 to 99.58 percent, which was within the program's specified accuracy control limits of 90 to 110 percent.

Total Alpha Activity

The Total Alpha analyses were performed on the samples 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 the samples from Core 70, segments 1 and 2, for upper half and lower half solids, & Core 73, segment 1, 2 solids.

None of the samples contained alpha activity in excess of the detection limits which ranged from less than $6.78\text{E-}04$ to less than $3.79\text{E-}03$ $\mu\text{Ci/g}$. These detection limits were more than 1000 fold lower than the notification limit of 41 $\mu\text{Ci/g}$.

Spike recovery was lower than normal for samples from core 70, segment 2 and from core 73. This is most likely due to the presence of solids on the sample mount. Alpha reruns were requested and performed but did not demonstrate improved recoveries. No further work was performed due to the low alpha activity in the sample

REFERENCE Schreiber, R. D., 1995, WHC-SD-WM-TP-308, Revision 0A, "Tank 241-U-201 Tank Characterization Plan, dated March 2, 1995.

WHC-SD-WM-DP-107, REV. 0

WHC-SD-WM-DP-107, REV. 0

SAMPLE DATA SUMMARY

45 Day Safety Screen Results for U-201
U-201

TABLE 1 - page 1

CORE NUMBER: 70
SEGMENT #: 1

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951000540		% Water by TGA on Perkin Elmer	%	16.990 200.000	98.41	n/a	14.34	15.2	14.77	5.82	n/a	n/a	n/a
S951000540		DSC Exotherm on Perkin Elmer	Joules/g	13.000 481.050	103.3	n/a	0	0	0.000	n/a	n/a	n/a	n/a
S951000541	F	Alpha of Digested Solid	uct/g	13.000 41.050	79.05	< 3.11e-03	< 3.08e-3	< 3.79e-3	n/a	n/a	n/a	7.00e-03	500.0

L Lower Half of Segment: L Lower Half of Segment

Sample#	R #	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951000536		% Water by TGA on Perkin Elmer	%	16.990 200.000	98.41	n/a	18.49	18.25	18.37	1.31	n/a	n/a	n/a
S951000536		DSC Exotherm on Perkin Elmer	Joules/g	13.000 481.050	103.3	n/a	0	0	0.000	n/a	n/a	n/a	n/a
S951000537	F	Alpha of Digested Solid	uct/g	13.000 41.050	79.05	< 3.11e-03	< 3.11e-3	< 3.11e-3	n/a	n/a	n/a	7.00e-03	500.0

=> Limit Violated
=> Selected Limit

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WHC-SD-WM-DP-101, REV.1

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A-0002-1

45 Day Safety Screen Results for U-201 Drainable Liquid
U-201

TABLE 1 - page 2

CORE NUMBER: 70
SEGMENT #: 1

SEGMENT PORTION: Drainable Liquid

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951000531		% Water by TGA on Perkin Elmer	%	Lower	Upper	97.50	n/a	70.50	69.46	69.98	1.49	n/a	n/a	n/a
S951000531		DSC Exotherm on Perkin Elmer	Joules/g	16.990	200.000	102.6	n/a	0	0	0.000	n/a	n/a	n/a	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-107, REV. 1

WHC-SD-WM-DP-107, REV. 0

28-apr-1995 12:47:02
A-0002-1

Page: 2

45 Day Safety Screen Results for U-201
U-201

TABLE 2 - page 1

CORE NUMBER: 70
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
					Lower	Upper									
S95T000619			% Water by TGA on Perkin Elmer	%	16.990	200.000	98.38	n/a	25.09	26.15	25.62	4.14	n/a	n/a	n/a
S95T000619			DSC Exotherm on Perkin Elmer	Joules/g	1.000	481.050	103.1	n/a	0	0	0.000	n/a	n/a	n/a	n/a
S95T000622	F		Alpha of Digested Solid	uCi/g	1.000	41.050	90.20	<8.39e-04	<8.39e-4	<1.16e-3	n/a	n/a	52.30	2.00e-03	500.0

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
					Lower	Upper									
S95T000613			% Water by TGA on Perkin Elmer	%	16.990	200.000	98.38	n/a	30.58	31.51	31.05	3.00	n/a	n/a	n/a
S95T000613			DSC Exotherm on Perkin Elmer	Joules/g	1.000	481.050	103.1	n/a	0	0	0.000	n/a	n/a	n/a	n/a
S95T000615	F		Alpha of Digested Solid	uCi/g	1.000	41.050	90.20	<8.39e-04	<1.09e-3	<8.38e-4	n/a	n/a	63.80	2.00e-03	500.0

=> Limit violated
=> Selected Limit

WHCSD-WM-DP-107, REV. 1
WHCSD-WM-DP-107, REV. 0

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28-Apr-1995 12:52:02
A-0002-1

45 Day Safety Screen Results for U-201 Drainable Liquid
U-201

TABLE 2 - page 2

CORE NUMBER: 70
SEGMENT #: 2

SEGMENT PORTION: Drainable Liquid		Unit		Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
Sample #	R M	Analyte		Lower	Upper									
5951000625		% Water by TGA using Mettler	%	16.990	200.000	98.29	n/a	70.88	70.50	70.69	0.54	n/a	n/a	n/a
5951000625		DSC Exotherm using Mettler	Joules/g	-1.000	481.010	104.4	n/a	0	0	0.000	n/a	n/a	n/a	n/a

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-107, REV. 1

WHC-SD-WM-DP-107, REV. 0

28-apr-1995 12:47:28
A-0002-1

Page: 3

45 Day Safety Screen Results for U-201
U-201

TABLE 3 - page 1

CORE NUMBER: 73
SEGMENT #: 1

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									
S95T000548			% Water by TGA using Mettler	%	16.990	200.000	99.58	n/a	36.29	35.74	36.02	1.53	n/a	n/a	n/a
S95T000548			DSC Exotherm using Mettler	Joules/g	1.000	481.050	95.61	n/a	0	0	0.000	n/a	n/a	n/a	n/a
S95T000549			Alpha of Digested Solid	uCi/g	1.000	41.050	84.46	<6.67e-04	<9.72e-4	<6.78e-4	n/a	n/a	69.30	2.00e-03	500.0

=> Limit violated
=> Selected Limit

175

WHC-SD-WM-DP-107, REV. 1
WHC-SD-WM-DP-107, REV. 0

28-Apr-1995 12:52:16
A-0002-1

45 Day Safety Screen Results for U-201 Drainable Liquid
U-201

TABLE 3 - page 2

CORE NUMBER: 73
SEGMENT #: 1

SEGMENT PORTION: Drainable Liquid														
Sample#	R AF	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
				Lower	Upper									
5951000544		% Water by IGA on Perkin Elmer	%	16.990	200.000	97.50	n/a	70.54	70.31	70.43	0.33	n/a	n/a	n/a
5951000544		DSC Exotherm on Perkin Elmer	Joules/g	1.000	481.010	102.6	n/a	0	0	0.000	n/a	n/a	n/a	n/a

→ Limit violated
→ Selected Limit

WHC-SD-WM-DP-107, REV. 1

WHC-SD-WM-DP-107, REV. 0

28-apr-1995 12:47:45
A-0002-1

Page: -4

45 Day Safety Screen Results for U-201
U-201

CORE NUMBER: 73
SEGMENT #: 2

TABLE 4 - page 1

SEGMENT PORTION: W Whole Segment

Sample#	R	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
				Lower	Upper									
S95T000552		% Water by TGA using Mettler	%	16.990	200.000	99.58	n/a	38.99	33.80	36.39	14.3	n/a	n/a	n/a
S95T000552		DSC Exotherm using Mettler	Joules/g	1.000	481.050	95.61	n/a	0	0	0.000	n/a	n/a	n/a	n/a
S95T000553	F	Alpha of Digested Solid	uci/g	1.000	41.050	84.46	<6.67e-04	<7.39e-4	<9.00e-4	n/a	n/a	56.60	1.00e-03	500.0

=> Limit violated

=> Selected Limit

177

WHC-SD-WM-DP-107, REV.0

WHC-SD-WM-DP-107, REV.1

28-apr-1995 12:52:26
A-0002-145 Day Safety Screen Results for U-201 Drainable Liquid
U-201

TABLE 4 - page 2

CORE NUMBER: 73
SEGMENT #: 2

SEGMENT PORTION: Drainable Liquid									
Sample#	RAM	Analyte	Unit	Action Limits		Standard X	Blank	Result	Duplicate
5951000556		% Water by IGA on Perkin Elmer	%	Lower	Upper	98.41	n/a	69.88	70.26
5951000556		DSC Exotherm on Perkin Elmer	Joules/g	16.990	200.000	102.8	n/a	0	0
				1.000	481.010				
								Average	RPD %
								70.07	0.54
								0.000	n/a
									Spk Rec %
									n/a
									Det Limit
									n/a
									Count Err%
									n/a

 >> Limit violated
 >> Selected Limit

WHC-SD-WM-DP-107, REV. 1

WHC-SD-WM-DP-107, REV. 0

WHC-SD-WM-DP-107, REV. 1

WHC-SD-WM-DP-107, REV. 0

UNDIGEST SAMPLE ANALYSES - DIRECT

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LABCORE Data Entry Template for Worklist# 939

Analyst: SMF Instrument: DSC01 Book # 12N14-A
Method: LA-514-114 Rev/Mod B-00 gmf 4/28/95
Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	<u>28.45</u>	<u>29.40</u>	<u>N/A</u>	Joules/g
95000029	U-201	2 SAMPLE	S95T000536	0	DSC-03	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000029	U-201	3 DUP	S95T000536	0	DSC-03	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000029	U-201	4 SAMPLE	S95T000540	0	DSC-03	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000029	U-201	5 DUP	S95T000540	0	DSC-03	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist # 939

See attached for signatures
Analyst Signature _____ Date _____

Data entered and verified by
Blandina Valenzuela
Analyst Signature _____ Date _____

Data Entry Comments: S95T000536 produced two endotherms one at 121.64°C
with a delta H of 582.33 and the second at 286.8°C
with a delta H of 467.3 J/g
S95T000540 produced two endotherms one at 98.5°C
with a delta H of 369.15 J/g and the second at 296.4°C
with a delta H of 432.71 J/g
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number.
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 939

Analyst: SWF Instrument: DSC01 Book # 12N14-A

Method: LA-514-113 Rev A Mod 2A-514-114/B-09MTF
SWF 4-26-95 4/28/95

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000029	U-201	2 SAMPLE	S95T000536	0	DSC-01	SOLID	N/A			Joules/g
95000029	U-201	3 DUP	S95T000536	0	DSC-01	SOLID			N/A	Joules/g
95000029	U-201	4 SAMPLE	S95T000540	0	DSC-01	SOLID	N/A			Joules/g
95000029	U-201	5 DUP	S95T000540	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 939

Susie M. Galt 4-26-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

S95T000536 - yellow sludge w/ large white opaque crystals and
small black particles

S95T000540 - yellow cakey (cooked like egg yolk) material w/ small crystals.

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

Curve 1: DSC

File info: IND042601 Wed Apr 26 07:39:22 1995

Sample Weight: 6.340 mg

Indium at 10C/min

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 182 TO 186

X1	154.666 °C
X2	162.700 °C
Peak	158.093 °C
Area	186.401 mJ
ΔH	29.401 J/g
Height	13.472 mW
Onset	155.192 °C

Heat Flow (mW)

18.0 -
16.0 -
14.0 -
12.0 -
10.0 -
8.0 -
6.0 -
4.0 -

182

140.0 145.0 150.0 155.0 160.0 165.0 170.0 175.0

Temperature (°C)

N2 exotherm down

TEMP1: 140.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min
TEMP2: 175.0 °C

SM FULTON
Westinghouse Hanford Co.
222-S Lab
Wed Apr 26 07:37:04 1995

Lusie M. Fulton 4-26-95

WHC-SD-WM-DP-107, REV. 9/1/95

Curve 1: DSC

File info: qsav2

Wed Apr 26 09:17:51 1995

Sample Weight: 22.630 mg

S95T000536, 10C/min

BEST AVAILABLE COPY

Curve 1: DSC

File info: SAM042602 Wed Apr 26 10:25:18 1995

Sample Weight: 28.780 mg

S95T000536 (DUP), 10C/min

BEST AVAILABLE COPY

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Wed Apr 26 11:29:10 1995

exotherm down, nitrogen purge gas
TEMP: 35.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

BEST AVAILABLE COPY

Curve 1: DSC
File info: SAM042603 Wed Apr 26 11:48:52 1995
Sample Weight: 11.340 mg
S95T000540, 10C/min

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Wed Apr 26 11:53:01 1995

exotherm down, nitrogen purge gas
TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Curve 1: DSC

File Info: SAM040504 Wed Apr 26 12:45:21 1995

Sample Weight: 15.380 mg

S95T000540 (DUP), 10C/min

BEST AVAILABLE COPY

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Wed Apr 26 13:17:13 1995

exotherm down, nitrogen purge gas
TEMP: 35.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

LABCORE Data Entry Template for Worklist# 940

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

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

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>27.2</u>	<u>N/A</u>	Joules/g
95000033	U-201	2 SAMPLE	S95T000548	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000033	U-201	3 DUP	S95T000548	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000033	U-201	4 SAMPLE	S95T000552	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000033	U-201	5 DUP	S95T000552	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist # 940

Luzie M. Fulton 4-26-95
Analyst Signature Date

Data entered and verified by
Blandina Valenzuela
Analyst Signature Date

S95T000548 produced two endotherms one at 145.4°C with a delta H of 1178.2 J/g and the second at 287.8°C with a delta H of 215.3 J/g.
S95T000552 produced two endotherms one at 129.3°C with a delta H of 1066.5 J/g, second at 289.8°C with a delta H of 195.1 J/g.

Data Entry Comments:

S95T000548 - light yellow sludge w/ thin clear film and med. opaque white crystals

S95T000552 - dull yellow sludge w/ large crystals

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

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 188 TO 192

DSC STD 12N14-A
6.654 mg
Rate: 10.0 °C/min
File: 00045.001
Ident: 0.0
DSC METTLER 25-Apr-95
222-S Laboratory

120. 140. 160. 180. °C
Suzie M. DeLuca 4-25-95

BEST AVAILABLE COPY

S95T000548 N2
25.981 mg
Rate: 10.0 °C/min
File: 00047.001
Ident: 0.0
DSC METTLER
222-S Laboratory
25-Apr-95

100. 200. 300. 400. °C

BEST AVAILABLE COPY

S95T000548 (DUP) N2
 25.005 mg
 File: 00049.001 DSC METTLER 26-Apr-95
 Rate: 10.0 °C/min
 Ident: 0.0 222-S Laboratory

BEST AVAILABLE COPY

S95T000552 N2
30.819 mg
Rate: 10.0 °C/min
File: 00051.001 DSC METTLER 26-Apr-95
Ident: 0.0 222-S Laboratory

S95T000552 (DUP) N2
26.865 mg
Rate: 10.0 °C/min
File: 00053.001 DSC METTLER 26-Apr-95
Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist# 942

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

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	LIQUID	<u>28.45</u>	<u>29.18</u>	<u>N/A</u>	Joules/g
95000029	U-201	2 SAMPLE	S95T000531	0	DSC-03	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000029	U-201	3 DUP	S95T000531	0	DSC-03	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000033	U-201	4 SAMPLE	S95T000544	0	DSC-03	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000033	U-201	5 DUP	S95T000544	0	DSC-03	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist # 942

See attached for signatures
Analyst Signature Date

St. Peter 4-27-95
Analyst Signature Date

Testu Dig 4-27-95

*See second page
for additional comments.*

Data Entry Comments: S95T000531 produced two endotherms one at 101.6°C with a
delta H of 1571.52 J/g and the second at ^{4pm15} 227.8 218.8°C with a delta H of
14.64 J/g

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

LABCORE Data Entry Template for Worklist# 942

Analyst: BWF Instrument: DSC01 Book # 12N14-A

Method: LA-514-113 Rev/Mod SMF 4-27-95 LA-514-114/B-0

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID			N/A	Joules/g
95000029	U-201	2 SAMPLE	S95T000531	0	DSC-01	LIQUID	N/A			Joules/g
95000029	U-201	3 DUP	S95T000531	0	DSC-01	LIQUID			N/A	Joules/g
95000033	U-201	4 SAMPLE	S95T000544	0	DSC-01	LIQUID	N/A			Joules/g
95000033	U-201	5 DUP	S95T000544	0	DSC-01	LIQUID			N/A	Joules/g

Final page for worklist # 942

Lucie M. Jullien 4-27-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

S95T000531 - Bright yellow liquid w/very thin layer of sediment
S95T000544 - Bright yellow liquid

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

Curve 1: DSC

File info: IND042701 Thu Apr 27 08:30:34 1995

Sample Weight: 6.340 mg

Indium at 10C/min

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 195 TO 200

N2 exotherm down

Temperature (°C)

TEMP1: 140.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min
TEMP2: 175.0 °C

SM FULTON
Westinghouse Hanford Co.
222-S Lab
Thu Apr 27 08:32:39 1995

Curve 1: DSC

File info: SAM042701 Thu Apr 27 09:38:15 1995

Sample Weight: 13.360 mg

S95T000531, 10C/min

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SM Fulton
Westinghouse Hanford Co.
222-S Lab
Thu Apr 27 13:32:59 1995

exotherm down, nitrogen purge gas
TEMP: 35.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

Curve 1: DSC
File info: SAM042702 Thu Apr 27 10:59:20 1995
Sample Weight: 10.340 mg
S95T000531 (DUP), 10C/min

BEST AVAILABLE COPY

WHC-SD-WM-DP-107, REV. 01

exotherm down, nitrogen purge gas
TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
TEMP: 500.0 °C

Temperature (°C)

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Thu Apr 27 13:26:10 1995

Curve 1: DSC

File info: SAM042703 Thu Apr 27 12:05:00 1995

Sample Weight: 7.110 mg

S95T000544, 10C/min

BEST AVAILABLE COPY

36T

Heat Flow (mW)

WHC-SD-WM-DP-107, REV. 01

[Handwritten signature]

exotherm down, nitrogen purge gas

Temperature (°C)

TEMP1: 36.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min
TEMP2: 500.0 °C

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Thu Apr 27 16:40:54 1995

Curve 1: DSC
File info: SAM042705 Thu Apr 27 15:30:29 1995
Sample Weight: 9.920 mg
S95T000544 (DUP2), 10C/min

BEST AVAILABLE COPY

139
Heat Flow (mW)

WHC-SD-WM-DP-107, REV. 01

exotherm down, nitrogen purge gas

TEMP1: 35.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min
TEMP2: 500.0 °C

Temperature (°C)

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Thu Apr 27 16:55:57 1995

Curve 1: DSC
 File info: SAM042704 Thu Apr 27 14:04:09 1995
 Sample Weight: 9.920 mg
 S95T000544 (DUP), 10C/min

BEST AVAILABLE COPY

SM Fulton
 Westinghouse Hanford Co.
 222-S Lab
 Thu Apr 27 16:49:26 1995

exotherm down, nitrogen purge gas
 TEMPERATURE 35.0 °C
 TIME 0.0 min RATE 10.0 °C/min

LABCORE Data Entry Template for Worklist# 943

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

Method: LA-514-114 Rev/Mod B-DU GmF 4/28/95

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	LIQUID	28.45	29.24	N/A	Joules/g
95000033	U-201	2 SAMPLE	S95T000556	0	DSC-03	LIQUID	N/A	Ø		Joules/g
95000033	U-201	3 DUP	S95T000556	0	DSC-03	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 943

See attached for signatures

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Data entered and verified by
Blandina Valenzuela

Data Entry Comments: S95T000 556 produced two endotherms one at 115°C
with a delta H of 1670.9 J/g and the second at 227.7°C with a
delta H of 53.6 J/g.

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

LABCORE Data Entry Template for Worklist# 943

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

Method: ~~LA-514-113~~ Rev/Mod *LA-514-114/B-DG MF*
SMF 5-26-95 4/28/95

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID			N/A	Joules/g
95000033	U-201	2 SAMPLE	S95T000556	0	DSC-01	LIQUID	N/A			Joules/g
95000033	U-201	3 DUP	S95T000556	0	DSC-01	LIQUID			N/A	Joules/g

Final page for worklist # 943

Susie McDutton 4-26-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

sample a bright yellow liquid

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

Curve 1: DSC

File info: IND042601 Wed Apr 26 07:33:22 1995

Sample Weight: 6.340 mg

Indium at 10C/min

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 203 TO 206.

WHC-SD-WM-DP-107, REV. 0

X1	154.666 °C
X2	162.100 °C
Peak	158.093 °C
Area	185.395 mJ
ΔH	29.242 J/g
Height	13.453 mW
Onset	155.192 °C

Heat Flow (mW)

203

SM FULTON
Westinghouse Hanford Co.
222-S Lab
Wed Apr 26 13:59:18 1995

N2 exotherm down
TEMP: 140.0 C
TEMP: 175.0 C
TIME: 0.0 min RATE: 10.0 C/min

Curve 1: DSC
 File info: SAM042605 Wed Apr 26 14:25:53 1995
 Sample Weight: 12.140 mg
 S95T000556, 10C/min

BEST AVAILABLE COPY

SM Fulton
 Westinghouse Hanford Co.
 222-S Lab
 Wed Apr 26 14:29:03 1995

exotherm down, nitrogen purge gas
 TEMPERATURE: 35.0 °C
 RATE: 10.0 °C/min

WHC-SD-WM-DP-107, REV. 01

Curve 1: DSC

File info: SAM042606 Wed Apr 26 15:29:20 1995

Sample Weight: 12.240 mg

S95T000556 (DUP), 10C/min

BEST AVAILABLE COPY

TEMP1: 35.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min
TEMP2: 500.0 °C

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Wed Apr 26 15:31:31 1995

WHC-SD-MM-DP-107, REV. 01

LABCORE Data Entry Template for Worklist# 1012

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

Method: LA-514-114 Rev/Mod B-10 SMF
4/28/95

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	28.45	28.83	N/A	Joules/g
95000029	U-201	2 SAMPLE	S95T000613	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000029	U-201	3 DUP	S95T000613	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
		4 STD			DSC-03	SOLID	28.45	29.33	N/A	Joules/g
95000029	U-201	5 SAMPLE	S95T000619	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000029	U-201	6 DUP	S95T000619	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 1012

See attached for signatures
Analyst Signature Ø Date Ø

R. Jones 4-26-95
Analyst Signature Date

Verified by Blundina Valenzuela 4/26/95

Data Entry Comments: S95T000613 produced three endotherms one at 118.0°C with
a delta H of 886.2 J/g, second at 185.7°C with a delta H of 19.15 J/g
and third at 243.26°C with a delta H of 285.8 J/g. S95T000619
produced two endotherms one at 103.7 with a delta H of 650.5 J/g and the second
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.
at 256.89°C with a delta H 557.06 J/g. S95T000619 was run the day after S95T000613
with a new standard.

LABCORE Data Entry Template for Worklist# 1012

Analyst: SAT Instrument: DSC01 Book # 12 N14-A

Method: LA-514-113 Rev/Mod
LA-514-1141B00 GMF 4/28/95

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000029	U-201	2 SAMPLE	S95T000613	0	DSC-01	SOLID	N/A			Joules/g
95000029	U-201	3 DUP	S95T000613	0	DSC-01	SOLID			N/A	Joules/g
95000029	U-201	4 SAMPLE	S95T000619	0	DSC-01	SOLID	N/A			Joules/g
95000029	U-201	5 DUP	S95T000619	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 1012

Luzie M. Daltor
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

S95T000613 lite. yellow liquid w/ large clear crystals
(ca 1/8")

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

Curve 1: DSC

File Info: IND042402 Mon Apr 24 10:19:39 1995

Sample Weight: 6.340 mg

Indium at 10C/min

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SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 28 TO 213.

20.0 -	X1	155.333 °C
	X2	162.566 °C
18.0 -	Peak	158.159 °C
	Area	182.783 mJ
16.0 -	ΔH	28.830 J/g
	Height	14.746 mW
14.0 -	Onset	155.847 °C

Heat Flow (mW)

208

N2 exotherm down
TEMP: 140.0 °C
TIME: 176.0 s

0.0 min RATE: 10.0 °C/min

Temperature (°C)

SM FULTON
Westinghouse Hanford Co.
222-S Lab
Mon Apr 24 10:28:48 1995

Curve 1: DSC

File Info: SAM042401 Mon Apr 24 12:08:38 1995

Sample Weight: 32.310 mg

S95T000556- 10C/min

SM 4-24-95

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WHC-SD-WM-DP-107, REV. 01

WLP 01/13/95

ΔH 886.19 J/g
Peak 129.87 °C

ΔH 285.82 J/g
Peak 278.73 °C

Onset 117.97 °C

Onset 243.25 °C

Heat Flow (mW)

Temperature (°C)

exotherm down, nitrogen purge gas

TEMPERATURE 35.0 °C TIMES: 0.0 min RATE: 10.0 °C/min

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Mon Apr 24 13:26:14 1995

Curve 1: DSC

File info: SAM042402 Mon Apr 24 14:34:38 1995

Sample Weight: 38.310 mg

S95T000613 (dup), 10C/min

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SM Fulton
Westinghouse Hanford Co.
222-S Lab
Mon Apr 24 15:04:00 1995

exotherm down, nitrogen purge gas
TEMP: 35.0 °C
TIME: 500.0 s
RATE: 0.0 min RATE: 10.0 °C/min

Curve 1: DSC

File info: IND042501 Tue Apr 25 07:39:13 1995

Sample Weight: 6.340 mg

Indium at 10C/min

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211

Heat Flow (mW)

	X1	154.666 °C
20.0 -	X2	162.233 °C
	Peak	158.306 °C
18.0 -	Area	185.946 mJ
	ΔH	29.329 J/g
16.0 -	Height	14.263 mW
	Onset	156.117 °C

14.0 -

12.0 -

10.0 -

8.0 -

6.0 -

4.0 -

140.0

145.0

150.0

155.0

160.0

165.0

170.0

175.0

Temperature (°C)

N2 exotherm down

TEMP1: 140.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min

SM FULTON
Westinghouse Hanford Co.
222-S Lab
Tue Apr 25 07:44:21 1995

WHC-SD-WM-DP-107, REV. 01
4-25-95

Curve 1: DSC

File info: SAM042501 Tue Apr 25 08:55:30 1995

Sample Weight: 29.590 mg

S95T000619, 10C/min

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WHC-SD-WM-DP-107, REV. 01

exotherm down, nitrogen purge gas

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Tue Apr 25 11:25:52 1995

Curve 1: DSC

File info: SAM042502 Tue Apr 25 10:41:37 1995

Sample Weight: 14.040 mg

S95T000619 (DUP), 10C/min

BEST AVAILABLE COPY

SM Fulton
Westinghouse Hanford Co.
222-S Lab
Tue Apr 25 11:00:36 1995

exotherm down, nitrogen purge gas
TEMP: 35.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

LABCORE Data Entry Template for Worklist# 1026

Analyst: RDM Instrument: DSC01 Book # 12N14A

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

Worklist Comment: Please run U-201 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID	<u>28.45</u>	<u>29.7</u>	<u>N/A</u>	Joules/g
95000029	U-201	2 SAMPLE	S95T000625	0	DSC-01	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000029	U-201	3 DUP	S95T000625	0	DSC-01	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist # 1026

RDM 4/23/95
Analyst Signature Date

[Signature] 4-25-95
Analyst Signature Date

Verified by Blandina Valenzuela 4/25/95

Data Entry Comments: Sample S95T000625 produced two endotherms one at 116.2°C
with a delta H of 1419.4 J/g and second at 229.1°C with a delta H of
26.2 J/g

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

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SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 215-217 TC

DSC STD

6.340 mg

Rate: 10.0 °C/min

File: 00007.001

Ident: 0.0

DSC METTLER 23-Apr-95

222-S Laboratory

exov

10. mW

Integration

Delta H 189 mJ

29.7 J/g

Peak

158.6 °C

-12.6 mW

Blandina Valenzuela

120. 140. 160. 180. °C

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S95T000625 N2
11.605 mg
Rate: 10.0 °C/min
File: 00008.001 DSC METTLER 23-Apr-95
Ident: 0.0 222-S Laboratory

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S95T000625 (DUP) N2
12.680 mg
Rate: 10.0 °C/min
File: 00009.001 DSC METTLER 23-Apr-95
Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist# 946

Analyst: SMF

Instrument: TGA01

Book # 42N8-A

Method: LA-514-114 Rev/Mod B-D

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.19</u>	<u>58.25</u>	<u>N/A</u>	%
95000029	U-201	2 SAMPLE	S95T000536	0	TGA-03	SOLID	<u>N/A</u>	<u>18.49</u>		%
95000029	U-201	3 DUP	S95T000536	0	TGA-03	SOLID	<u>18.49</u>	<u>18.25</u>	<u>N/A</u>	%
95000029	U-201	4 SAMPLE	S95T000540	0	TGA-03	SOLID	<u>N/A</u>	<u>14.34</u>		%
95000029	U-201	5 DUP	S95T000540	0	TGA-03	SOLID	<u>14.34</u>	<u>15.2</u>	<u>N/A</u>	%

Final page for worklist # 946

See attached for signatures
Analyst Signature _____ Date _____

Data entered + verified by
Blandina Valenzuela
Analyst Signature _____ Date _____

Data Entry Comments: S95T000536 produced a second weight loss step of 19.03% at approximately 290°C. S95T000540 produced a second weight loss step of 21.26% at approximately 300°C.

4/27/95 BDV

Units 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# 946

Analyst: SAR Instrument: TGA01 Book # 42N3-A

Method: LA-560-112 Rev/Mod LA-514-114/B-D

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000029	U-201	2 SAMPLE	S95T000536	0	TGA-01	SOLID	N/A			%
95000029	U-201	3 DUP	S95T000536	0	TGA-01	SOLID			N/A	%
95000029	U-201	4 SAMPLE	S95T000540	0	TGA-01	SOLID	N/A			%
95000029	U-201	5 DUP	S95T000540	0	TGA-01	SOLID			N/A	%

Final page for worklist # 946

Susie M. Fulton 4-26-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

S95T000536 - yellow sludge w/ large white opaque crystals & a few small black particles

S95T000540 - yellow cakey (like ^{cooked} egg yolk) material w/ small crystals

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

Curve 1: TGA
 File info: TER042601 Wed Apr 26 07:47:13 1995
 Sample Weight: 17.100 mg

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42N8A Terliq SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 220 TO 221.

N2
 TEMP: 35.0 C
 TIME: 250.0 S
 RATE: 0.0 min RATE: 10.0 C/min
 Temperature (°C)
 SM Fulton
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Apr 26 08:51:19 1995

Curve 1: TGA
 File info: SAM042601 Wed Apr 26 09:21:57 1995
 Sample Weight: 11.716 mg
 S95T000536, 10C/min

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SM Fulton
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Apr 26 09:39:55 1995

N2
 TEMP: 35.0 C
 TEMPE: 500.0 C
 TIME: 0.0 min
 RATE: 10.0 C/min

Curve 1: TGA

File info: SAM042602 Wed Apr 26 10:29:21 1995

Sample Weight: 15.354 mg

S95T000536 (DUP), 10C/min

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WHCSD-WM-DP-107, REV. L

N2
TEMP1: 35.0 C
TEMP2: 500.0 C
TIME1: 0.0 min
RATE1: 10.0 C/min

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 26 11:01:49 1995

Curve 1: TGA
 File info: SA0042603 Wed Apr 26 11:52:54 1995
 Sample Weight: 12.444 mg
 S95T000540, 10C/min

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SM Fulton
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Apr 26 12:00:10 1995

N2
 TEMP: 35.0 C
 TIME: 000.0 C
 0.0 min RATE: 10.0 C/min

Curve 1: TGA

File info: SAM042604 Wed Apr 26 13:01:27 1995

Sample Weight: 13.972 mg

S95T000540 (DUP), 10C/min

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WHCSD-WM-DP-107, REV. 1

222

N2

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

Temperature (°C)

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 26 13:25:24 1995

LABCORE Data Entry Template for Worklist# 947

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

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

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.19</u>	<u>58.47</u>	<u>N/A</u>	%
95000033	U-201	2 SAMPLE	S95T000548	0	TGA-01	SOLID	<u>N/A</u>	<u>36.29</u>		%
95000033	U-201	3 DUP	S95T000548	0	TGA-01	SOLID	<u>36.29</u>	<u>35.74</u>	<u>N/A</u>	%
95000033	U-201	4 SAMPLE	S95T000552	0	TGA-01	SOLID	<u>N/A</u>	<u>38.99</u>		%
95000033	U-201	5 DUP	S95T000552	0	TGA-01	SOLID	<u>38.99</u>	<u>33.80</u>	<u>N/A</u>	%
		6 STD			TGA-01	SOLID	<u>59.19</u>	<u>58.94</u>	<u>N/A</u>	%
95000033	U-201	7 TRIPL	S95T000552	0	TGA-01	SOLID	<u>38.99</u>	<u>37.71</u>	<u>N/A</u>	%

Final page for worklist # 947

See attached for signatures
Analyst Signature _____ Date _____

4/27/95
Data entered by and verified by
Blandina Valenzuela
Analyst Signature _____ Date _____

Data Entry Comments:

S95T000548 produced a second weight loss step of
7.43% at 273.0°C. S95T000552 produced a second weight loss
step of 6.38% at 277°C.

Units 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# 947

Analyst: SNIF Instrument: TGA01 Book # 412 N8-A

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

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.19</u>	<u>58.47</u>	<u>N/A</u>	%
95000033	U-201	2 SAMPLE	S95T000548	0	TGA-01	SOLID	<u>N/A</u>	<u>36.29</u>		%
95000033	U-201	3 DUP	S95T000548	0	TGA-01	SOLID	<u>36.29</u>	<u>35.74</u>	<u>N/A</u>	%
95000033	U-201	4 SAMPLE	S95T000552	0	TGA-01	SOLID	<u>N/A</u>	<u>38.99</u>		%
95000033	U-201	5 DUP	S95T000552	0	TGA-01	SOLID	<u>38.99</u>	<u>33.80</u>	<u>N/A</u>	%

Final page for worklist # 947

Lucie M. Fulton 4-26-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

S95T000548 - light yellow sludge w/ a thin clear film and med. opaque
white crystals

S95T000552 - dull yellow sludge w/ large crystals

Units 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 227 TO 233.

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TGA STD 42NB-A

12.592 mg

File: 00046.001 TG METTLER 25-Apr-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height -7.36 mg
-58.47 %
Resid. 5.23 mg
41.53 %
Dpeak 79.2 °C

150. 100. 50. *Lucie M. Dutton 4-26-95*

6/13/95

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File: 00048.001 TG METTLER 25-Apr-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

395T000548 N2
13.170 mg

Step Analysis
Height -4.78 mg
-36.29 %
Resid. 8.39 mg
63.71 %
Dpeak 103.0 °C

Step Analysis
Height -0.98 mg
-7.43 %
Resid. 7.32 mg
55.55 %
Dpeak 273.0 °C

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S95T000548 (DUP) N2

11.551 mg

Rate: 10.0 °C/min

File: 00050.001

Ident: 0.0

TG

METTLER

26-Apr-95

222-S Laboratory

229

WHC-SD-WM-DP-107, REV. 01

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S95T000552 N2

20.655 mg

Rate: 10.0 °C/min

File: 00052.001

Ident: 0.0

TG

METTLER

26-Apr-95

222-S Laboratory

Step Analysis
Height -8.05 mg
-38.99 %
ResidC. 12.60 mg
61.01 %
Dpeak 113.0 °C

Step Analysis
Height -1.32 mg
-6.38 %
ResidC. 11.12 mg
53.82 %
Dpeak 277.0 °C

230

5. mg

100.

200.

300.

400.

°C

WHC-SD-WM-DP-107, REV. 61
10/1/96

BEST AVAILABLE COPY

S95T000552 (DUP) N2

20.259 mg

Rate: 10.0 °C/min

File: 00054.001

TG

METTLER

26-Apr-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height -6.85 mg

-33.80 %

ResiC. 13.41 mg

66.20 %

Dpeak 95.0 °C

Step Analysis

Height -2.06 mg

-10.16 %

ResiC. 11.19 mg

55.22 %

Dpeak 277.0 °C

231

WHC-SD-WM-DP-107, REV. 6/12/95

Rate: 10.0 °C/min

Step Analysis	
Height-10.20 mg	
-58.94 %	
Resic.	7.10 mg
	41.06 %
Dpeak	83.0 °C

400
Lucie M. Sutton 4-27-93

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S95T000552 (DUP2) N2

28.943 mg

Rate: 10.0 °C/min

File: 00060.001

Ident: 0.0

TG

METTLER

26-Apr-95

222-S Laboratory

Step Analysis

Height-10.92 mg

-37.71 %

Resid. 18.03 mg

62.29 %

Dpeak 129.0 °C

Step Analysis

Height -1.88 mg

-6.50 %

Resid. 15.92 mg

55.01 %

233

WMC-SD-WM-DP-107, REV. 0

LABCORE Data Entry Template for Worklist# 949

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

Method: LA-514-114 Rev/Mod B-U

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	LIQUID	<u>59.19</u>	<u>57.71</u>	<u>N/A</u>	%
95000029	U-201	2 SAMPLE	S95T000531	0	TGA-03	LIQUID	<u>N/A</u>	<u>70.50</u>		%
95000029	U-201	3 DUP	S95T000531	0	TGA-03	LIQUID	<u>70.50</u>	<u>69.46</u>	<u>N/A</u>	%
95000033	U-201	4 SAMPLE	S95T000544	0	TGA-03	LIQUID	<u>N/A</u>	<u>70.54</u>		%
95000033	U-201	5 DUP	S95T000544	0	TGA-03	LIQUID	<u>70.54</u>	<u>70.31</u>	<u>N/A</u>	%

Final page for worklist # 949

See attached for signatures
Analyst Signature _____ Date _____

Analyst Signature _____ Date 4-27-95

See second page
for additional
comments

Rescue Day 4-27-95

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 949

Analyst: SWF Instrument: TGA01 Book # 42N8-A

Method: LA-560-112 Rev A Mod LA-514-114/B-0

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID			N/A	%
95000029	U-201	2 SAMPLE	S95T000531	0	TGA-01	LIQUID	N/A			%
95000029	U-201	3 DUP	S95T000531	0	TGA-01	LIQUID			N/A	%
95000033	U-201	4 SAMPLE	S95T000544	0	TGA-01	LIQUID	N/A			%
95000033	U-201	5 DUP	S95T000544	0	TGA-01	LIQUID			N/A	%

Final page for worklist # 949

Luis M. Delten 4-27-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

S95T000531 - Bright yellow liquid w/very thin layers of sediment

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

Curve 1: TGA

File info: TER042701 Thu Apr 27 08:45:21 1995

Sample Weight: 12.281 mg

42N8A Tarliq

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SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 236 TO 240

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Apr 27 08:45:45 1995

N2
TEMP: 50.0 °C
TIME: 200.0 s
RATE: 0.0 min RATE: 10.0 °C/min

Curve 1: TGA
 File Info: SAM042701 Thu Apr 27 09: 49: 35 1995
 Sample Weight: 12.774 mg
 S95T000531, 10C/min

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N2
 TEMPI: 35.0 g
 TEMPE: 500.0 g
 TIME: 0.0 min RATE: 10.0 C/min
 SM Fulton
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Apr 27 10:02:01 1995

WHC-SD-WM-DP-107, REV. 01/13/95

Curve 1: TGA

File info: SAM042702 Thu Apr 27 11:04:07 1995

Sample Weight: 10.911 mg

S95T000531 (DUP), 10C/min

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238

Weight (Wt. %)

WHC-SD-WM-DP-107, REV. 01
10/10/95

N2

TEMP1: 35.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min
TEMP2: 500.0 °C

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Apr 27 11:07:01 1995

Curve 1: TGA

File info: SAM042703 Thu Apr 27 12:07:33 1995

Sample Weight: 10.538 mg

S95T000544, 10C/min

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639

Weight (Wt. %)

WHC-SD-WM-DP-107, REV. 01

10/13/97

N2

TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
TEMP: 500.0 C

Temperature (°C)

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Apr 27 16:29:41 1995

Curve 1: TGA

File info: SAM042704 Thu Apr 27 14:05:57 1995

Sample Weight: 9.179 mg

S95T000544 (dup), 10c/MIN

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WHC-SD-WM-DP-107, REV. 0
1/10/95

N2
TEMP: 30.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Apr 27 16:24:32 1995

LABCORE Data Entry Template for Worklist# 950

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

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	LIQUID	<u>59.19</u>	<u>58.25</u>	<u>N/A</u>	%
95000033	U-201	2 SAMPLE	S95T000556	0	TGA-03	LIQUID	<u>N/A</u>	<u>69.88</u>		%
95000033	U-201	3 DUP	S95T000556	0	TGA-03	LIQUID	<u>69.88</u>	<u>70.26</u>	<u>N/A</u>	%

Final page for worklist # 950

See attached for signatures
Analyst Signature _____ Date _____

Data entered + verified
Blandina Valenzuela
Analyst Signature _____ Date _____

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 950

analyst: SNF Instrument: TGA01 Book # 42N8-17
Method: ~~LA-560-112 Rev/Mod~~ SNF 4-26-95
LA-514-114/15-0
Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID			N/A	%
95000033	U-201	2 SAMPLE	S95T000556	0	TGA-01	LIQUID	N/A			%
95000033	U-201	3 DUP	S95T000556	0	TGA-01	LIQUID			N/A	%

Final page for worklist # 950

Susie M. Dutton 4-26-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

sample a bright yellow liquid.

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

Curve 1: TGA

File info: TER042601 Wed Apr 26 07:47:13 1995

Sample Weight: 17.100 mg

42N8A Terliq

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COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 243 TO 245

243

Weight (Wt. %)

WMC-SD-WM-DP-107, REV. 0.1 11/11/95

N2

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min

Temperature (°C)

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 26 13:49:48 1995

Curve 1: TGA
 File info: SAM042605 Wed Apr 26 14:29:06 1995
 Sample Weight: 12.786 mg
 S95T000556, 10C/min

WHC-SD-WM-DP-107, REV. 01 *mw*
 6/3/96

N2
 TEMP: 35.0 C
 TEMPE: 500.0 C
 TIME: 0.0 min RATE: 10.0 C/min
 SM Fulton
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Apr 26 14:35:02 1995

Curve 1: TGA

File info: SAM042606 Wed Apr 26 15:35:44 1995

Sample Weight: 10.047 mg

S95T000556 (DUP), 10C/min

N2
TEMP: 35.0 °C
TEMP: 500.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 26 15:38:12 1995

LABCORE Data Entry Template for Worklist# 1033

Analyst: RDM Instrument: TGA01 Book # 42NB-A

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

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID	<u>59.19</u>	<u>58.18</u>	<u>N/A</u>	%
95000029	U-201	2 SAMPLE	S95T000625	0	TGA-01	LIQUID	<u>N/A</u>	<u>70.88</u>		%
95000029	U-201	3 DUP	S95T000625	0	TGA-01	LIQUID	<u>70.88</u>	<u>70.50</u>	<u>N/A</u>	%

Final page for worklist # 1033

RDM 4/26/95
Analyst Signature Date

Data entered and verified by
Blandina Valenzuela
Analyst Signature Date

Data Entry Comments:

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

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COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 247 TO 249

WHC-SD-WM-DP-107, REV. 01 NW 4/13/85

TGA STD 42NB-A
16.458 mg

File: 00055.001 TG METTLER 26-Apr-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height -9.58 mg
-58.18 %
Resid. 6.88 mg
41.82 %
Dpeak 87.0 °C

Forster Day 4/27/85

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File: 00056.001 TG METTLER 26-Apr-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

S95T000625 N2

13.183 mg

Step Analysis	
Height	-9.34 mg
	-70.88 %
Resic.	3.84 mg
	29.12 %
Dpeak	77.0°C

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S95T000625 (DUP) N2
12.524 mg

Rate: 10.0 °C/min

File: 00057.001 TG METTLER 26-Apr-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height -8.83 mg
-70.50 %
ResidC. 3.69 mg
29.50 %
Dpeak 77.0 °C

LABCORE Data Entry Template for Worklist# 1046

Analyst: SMF

Instrument: TGA01

Book # 42N8-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	59.19	58.23	N/A	%
95000029	U-201	2 SAMPLE	S95T000613	0	TGA-03	SOLID	N/A	30.58		%
95000029	U-201	3 DUP	S95T000613	0	TGA-03	SOLID	30.58	31.51	N/A	%
		4 STD			TGA-03	SOLID	59.19	57.08	N/A	%
95000029	U-201	5 SAMPLE	S95T000619	0	TGA-03	SOLID	N/A	25.09		%
95000029	U-201	6 DUP	S95T000619	0	TGA-03	SOLID	25.09	26.15	N/A	%

Final page for worklist # 1046

See attached for signature

Analyst Signature Date

Analyst Signature

4-26-95

Date

Verified by Blandina Valenzuela 4/26/95

Data Entry Comments:

^{4/26/95 BDV}
S95T000613 produced a second weight loss step of 13.6% at approximately 300°C.
^{4/26/95 BDV}
S95T000619 analysis was performed the day after S95T000613 with a new standard. S95T000619 produced a second weight loss step of 16.75% at approximately 390°C.

Units 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# 1046

Analyst: SMF Instrument: TGA01

Book # 42N8-73 SMF 4/24/95

Method: LA-560-112 Rev/Mod

42N8-A SMF

Worklist Comment: Please run U-201 TGA under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000029	U-201	2 SAMPLE	S95T000613	0	TGA-01	SOLID	N/A			%
95000029	U-201	3 DUP	S95T000613	0	TGA-01	SOLID			N/A	%
95000029	U-201	4 SAMPLE	S95T000619	0	TGA-01	SOLID	N/A			%
95000029	U-201	5 DUP	S95T000619	0	TGA-01	SOLID			N/A	%

Final page for worklist # 1046

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

S95T000613 - light yellow liquid w/ large clear crystals
S95T000619 - LAD 4-27-95
sample 613 (1/8" x)

light yellow thick liquid w/ a thin watery layer & sm white crystals

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

Curve 1: TGA
 File Info: TER042401 Mon Apr 24 10:46:35 1995
 Sample Weight: 12.863 mg
 42NBA Terliq

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 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 252 TO 257.

WHC-SD-WM-DP-107, REV. 01 *HW* 6/13/95

252
 Weight (Wt. %)

SM Fulton 4-24-95

SM Fulton
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Mon Apr 24 11:00:52 1995

N2
 TEMP: 35.0 C
 TIME: 0.0 min
 RATE: 10.0 C/min

Curve 1: TGA

File info: SAM042401 Mon Apr 24 12:13:29 1995

Sample Weight: 18.201 mg

S95T000590, 10C/min

613
SMF 4-24-95

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N2
TEMP: 50.0 C
TIME: 0.0 min RATE: 10.0 C/min
TEMP: 500.0 C

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 24 13:36:10 1995

Curve 1: TGA

File info: SAM042402 Mon Apr 24 14:36:33 1995

Sample Weight: 18.917 mg

S95T000613 (dup). 10C/min

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N2
TEMP1: 35.0 C
TEMP2: 500.0 C
TIME1: 0.0 min
RATE1: 10.0 C/min

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 24 14:58:44 1995

WHCSD-WM-DP-107, REV. 01
11/19/95

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Curve 1: TGA
 File info: TER042501 Tue Apr 25 08: 03: 23 1995
 Sample Weight: 15.894 mg
 42N6A Ter11q

Lucie M. Fulton 4-25-95

SM Fulton
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Apr 25 08: 08: 46 1995

N2
 Temp: 250.0 °C
 Time: 0.0 min
 Rate: 10.0 °C/min

Curve 1: TGA

File Info: SAM042501 Tue Apr 25 09:14:01 1995

Sample Weight: 20.991 mg

S95T000619, 10C/min

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WHC-SD-WM-DP-107, REV. 01 *Jan 6/13/95*

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 25 09:49:59 1995

N2
TEMP: 35.8 C
TIME: 00.8 S
RATE: 0.0 min RATE: 10.0 C/min

Curve 1: TGA

File info: sam042502 Tue Apr 25 10:45:40 1995

Sample Weight: 24.258 mg

S95t000619 (dup), 10c/MIN

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WHCSD-WM-DP-107, REV. 0 10/1/95

N2
TEMP1: 35.0 C
TEMP2: 500.0 C
TIME1: 0.0 min
RATE1: 10.0 C/min

Temperature (°C)

SM Fulton
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 25 11:08:19 1995