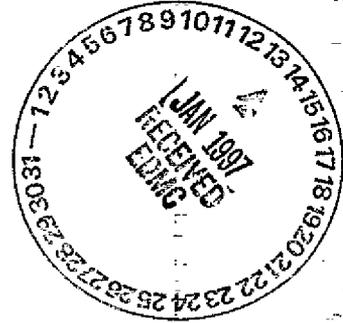




Science Applications International Corporation
An Employee-Owned Company

December 5, 1990

Westinghouse Hanford Company
2355 Stevens Drive
Richland, WA 99352
Attn: R. A. Bechtold



Reference: Contract No. MPB-SVV-069146

Dear Ms. Bechtold:

Enclosed is the sample delivery group No. *BOOBJ1* and SOW No. *300-FF-1 Remedial Investigation, Task 5b Vegetation Analysis for CY 1990*. The following samples were received on October 19, 1990:

WHC Sample No.

SAIC Sample No.

BOOBJ1	19915
BOOBJ0	19914
BOOBH9	19916
BOOCK5	19917
BOOCL2	19918
BOOCK1	19919
BOOCL0	19920
BOOBF8	19922
BOOBF7	19923
BOOBF5	19925
BOOBF6	19924

December 5, 1990
Westinghouse Hanford Company
Page 2



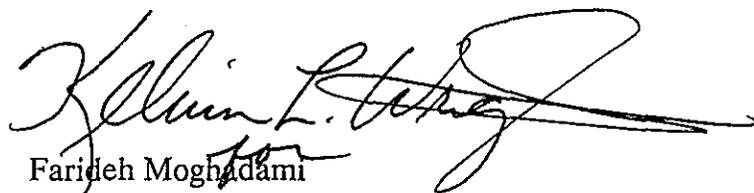
Data is also included for the blanks, replicates, spikes, and lab control samples. Samples were as follows:

<i>Type of Sample</i>	<i>SAIC Sample Numbers</i>
Duplicate	19921
Reference Standard	Spike 9
Reference Standard	Spike 10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Very truly yours,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION


Farideh Moghadami
Laboratory Manager

cc: QA Officer

CASE NARRATIVE

Sample Delivery Group No. BOOBJ1 was analyzed in accordance with SAIC's standard operating procedures and the quality assurance program. This group was received on October 19, 1990 and included the following samples:

<i>WHC Sample No.</i>	<i>SAIC Sample No.</i>	<i>Sample Date</i>	<i>Sample Type</i>
BOOBJ1	19915	05/14/90	Asparagus
BOOBJ0	19914	05/14/90	Asparagus
BOOBH9	19916	05/14/90	Asparagus
BOOCK5	19917	06/20/90	CHNA
BOOCL2	19918	06/19/90	POSA
BOOCK1	19919	06/20/90	CHNA
BOOCL0	19920	06/20/90	CHNA
BOOBF8	19922	05/07/90	Asparagus
BOOBF7	19923	05/07/90	Asparagus
BOOBF5	19925	05/07/90	Asparagus
BOOBF6	19924	05/07/90	Asparagus

No abnormalities, problems, or deviations from accepted procedures were identified except those noted as follows:

<i>Issue</i>	<i>Reason</i>
NA	



Westinghouse Hanford Company

Westinghouse Hanford Company
A subsidiary of Westinghouse Electric Corporation
P.O. Box 1970 Richland, Wa. 99352

RELEASE TO SHIP

41440

MO	DAY	YR
10	12	90

DATE SHIPPED		
MO	DAY	YR

VENDOR CODE	PURCHASE ORDER REF
55922	MPB-SVY-069146

SHIP TO
SCIENCE APPLICATIONS INTERNATIONAL CORP.
LABORATORY SERVICES DIVISION
3 CHOKE CHERRY ROAD
ROCKVILLE MD 20850-4087
ATTN: RADWASTE SAMPLE COORDINATOR

FOR ACCOUNT OF
WESTINGHOUSE HANFORD COMPANY
PO BOX 1970
RICHLAND WA 99352

F.O.B.	CAR INITIALS AND NO.	FRT. CHGS. VENDOR	BUYER CODE	BUYER NAME	PHONE
ROCKVILLE MD		2 WESTINGHOUSE HANFORD	PB	P. D. BRAUN	6-5762

B/L	B/L WEIGHT	ROUTING	RETURN DUE DATE	REQUISITION NO.
	5.110/177#	AIRBORNE OR FEDERAL EXPRESS	TBD	069146

P/O ITEM	QUANTITY	U.M.	DESCRIPTION	AMOUNT
	5	EA	BOXES COOLERS OF VEGETATION SAMPLES	

Rich
10/18/90

REDISTRIBUTE COST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	SPECIAL PACKAGING REQUIRED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
-------------------	---	----------------------------	---

REASON FOR SHIPMENT	A. RETURN FOR CREDIT	E. RETURN OVERSHIPMENTS	J. SHIP MATERIAL OR EQUIPMENT FOR REPAIR OR REBUILD
F	B. RETURN FOR REPLACEMENT	F. RETURN SAMPLE	K. SHIP MATERIAL OR EQUIPMENT FOR REPAIR ESTIMATE
	C. RETURN FOR REPAIR	G. RETURN VENDOR-OWNED MATERIAL OR EQUIPMENT	L. SHIP GOVERNMENT-OWNED RETURNABLE CONTAINER
	D. RETURN VENDOR-OWNED RETURNABLE CONTAINER	H. SHIP GOVERNMENT-OWNED TOOLS, JIGS, AND FIXTURES	M. SHIP GOVERNMENT-OWNED MATERIAL FOR USE IN FABRICATION
		I. SHIP EXCHANGE UNITS (CORE)	N. MISCELLANEOUS-

HAZARDOUS MATERIAL	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IF YES, HAZARDOUS MATERIAL FORM IS REQUIRED TO ACCOMPANY MATERIAL.
--------------------	---	--

LOCATION OF MATERIAL	TOTAL PIECES	RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.
TO BE DELIVERED TO SHIPPING	5		

CUSTODIAN							PHONE	DATE AVAILABLE FOR SHIPMENT
R. A. RECHTOLD							3-3448	10-16-90
ITEM	CO ID*	COST CENTER	MC	COST ELEMENT	CHARGE CODE	% OF COST	AUTHORIZED BY	DATE
	M	16500		210	EC32Y	100	P. D. BRAUN	10-12-90
							FOR DOE	DATE
							FOR SHIPPING OPERATION	DATE

1-ACCOUNTS PAYABLE COPY
3-PROPERTY MANAGEMENT COPY
5-PACKING LIST COPY
7-CUSTODIAN COPY-2

2-BUYER'S COPY
4-SHIPING COPY
6-CUSTODIAN COPY 1
8-PURCHASING COPY

5
5-1



Pacific Northwest Laboratories
Richland, Washington

CHAIN OF CUSTODY

CAB 033

Company Contact: CHARLES A. BIZANDT Telephone: 376-~~7~~5345 LC 10/16/90

Samples Collected by: NA Date: _____ Time: _____

Sample Location: NA

Ice Chest No.: NA Field Logbook Page No.: _____

Remarks: ISOTOPIC URANIUM SAMPLES (SPLITS)

Method of Shipment: HAND CARRY

<u>New Number</u>	<u>Parent Number</u>	<u>Sample Identification</u>
X ✓ B00BJ1	B009C1	
X ✓ B00BJ0	B009C0	
X ✓ B00BH9	B009B9	
X ✓ B00CK5	B009P9	
X ✓ B00CL2	B009Q0	
X ✓ B00CK1	B009Q1	
X ✓ B00CL0	B009Q2	
X ✓ B00BF8	B00988	
X ✓ B00BF7	B00987	
X ✓ B00BF5	B00985	
X ✓ B00BF6	B00986	

Chain of Possession

Relinquished by: RJ Fellows

Received by: Gordon Blewett

Date/Time: 10/17/90 11:00 AM

Relinquished by: _____

Received by: J. Rick SAIC

Date/Time: 10/18/90 - 1030

Relinquished by: _____

Received by: _____

Date/Time: _____

Relinquished by: _____

Received by: _____

Date/Time: _____

U #	SARC#	Parent #	Stratum	Sample Date	Sample Type
B00BJ8	19816	B009C8	300 Downriver	05/21/90	Asparagus
B00BJ7	19817	B009C7	300 Downriver	05/21/90	Asparagus
B00BJ6	19818	B009C6	300 Downriver	05/21/90	Asparagus
B00BJ9	19819	B009C9	300 Downriver	05/21/90	Asparagus
B00BJ5	19820-21	B009C5	300 Downriver	05/21/90	Asparagus
B00BK0	19822	B009D0	300 Downriver	05/25/90	Asparagus
B00BH4	19823	B009B4	Benton City	05/14/90	Asparagus
B00BH5	19824	B009B5	Benton City	05/14/90	Asparagus
B00BH6	19825	B009B6	Benton City	05/14/90	Asparagus
B00BH7	19826	B009B7	Benton City	05/14/90	Asparagus
B00BH8	19827	B009B8	Benton City	05/14/90	Asparagus
B00BF4	19828	B00984	Downriver	05/07/90	Asparagus
B00BF3	19829	B00983	Downriver	05/07/90	Asparagus
B00BF2	19830-31	B00982	Downriver	05/07/90	Asparagus
B00BF1	19832	B00981	Downriver	05/07/90	Asparagus
B00BF0	19833	B00980	Downriver	05/07/90	Asparagus
B00BD9	19834	B00979	Downriver	05/07/90	Asparagus
B00BJ4	19835	B009C4	Downriver	05/21/90	Asparagus
B00B99	19836	ASPG023	Hanford Townsite	04/24/90	Asparagus
B00BB0	19837	ASPG024	Hanford Townsite	04/24/90	Asparagus
B00BB1	19838	ASPG025	Hanford Townsite	04/24/90	Asparagus
B00BB2	19839	ASPG026	Hanford Townsite	04/24/90	Asparagus
B00BB3	19840-41	ASPG027	Hanford Townsite	04/24/90	Asparagus
B00BB4	19842	ASPG028	Hanford Townsite	04/24/90	Asparagus
B00BJ2	19843	B009C2	Operable Unit	05/14/90	Asparagus
B00BJ3	19844	B009C3	Operable Unit	05/14/90	Asparagus
B00BK5	19845	B009D5	Operable Unit	05/25/90	Asparagus
B00BK4	19846	B009D4	Operable Unit	05/25/90	Asparagus
B00BK3	19847	B009D3	Operable Unit	05/25/90	Asparagus
B00BK2	19848	B009D2	Operable Unit	05/25/90	Asparagus
B00BK1	19849	B009D1	Operable Unit	05/25/90	Asparagus
B00CK7	19850-1	B009P7	Operable Unit	06/19/90	CHNA
B00CL1	19852	B009P8	Operable Unit	06/19/90	POSA
B00CK8	19853	B009P5	Operable Unit	06/19/90	CHNA
B00CK9	19854	B009P6	Operable Unit	06/19/90	POSA
B00CK6	19855	B009P3	Operable Unit	06/19/90	CHNA
B00CL3	19856	B009P4	Operable Unit	06/19/90	POSA
B00CK3	19858	B009P1	Operable Unit	06/19/90	CHNA
B00CL6	19858	B009P2	Operable Unit	06/19/90	POSA
B00CK4	19859	B009N9	Operable Unit	06/19/90	CHNA

U #	Parent #	Stratum	Sample Date	Sample Type
B00CL4 19860-1	B009P0	Operable Unit	06/19/90	POSA
B00CK2 19862	B009N7	Operable Unit	06/19/90	CHNA
B00CL5 19863	B009N8	Operable Unit	06/19/90	POSA
B00B96 19864	ASPG020	South Plateau	04/20/90	Asparagus
B00B98 19865	ASPG022	South Plateau	04/20/90	Asparagus
B00B95 19866	ASPG019	South Plateau	04/20/90	Asparagus
B00B97 19867	ASPG021	South Plateau	04/20/90	Asparagus
B00BD3 19868	ASPG047	South Plateau	04/26/90	Asparagus
B00BD4 19869	ASPG048	South Plateau	04/26/90	Asparagus
B00BP0 19870-1	B00BK6	Operable Unit	06/19/90	Asparagus
B00BP1 19872	B00BK7	Operable Unit	06/19/90	Asparagus
B00BF9 19873	B00989	Sunnyside	05/08/90	Asparagus
B00BG0 19874	B00990	Sunnyside	05/08/90	Asparagus
B00BG1 19875	B00991	Toppenish	05/08/90	Asparagus
B00BG2 19876	B00992	Toppenish	05/08/90	Asparagus
B00BB5 19877	ASPG029	Taylor Flats	04/25/90	Asparagus
B00BB6 19878	ASPG030	Taylor Flats	04/25/90	Asparagus
B00BB7 19879	ASPG031	Taylor Flats	04/25/90	Asparagus
B00BB8 19880-1	ASPG032	Taylor Flats	04/25/90	Asparagus
B00BB9 19882	ASPG033	Taylor Flats	04/25/90	Asparagus
B00BC0 19883	ASPG034	Taylor Flats	04/25/90	Asparagus
B00BC1 19884	ASPG035	Taylor Flats	04/25/90	Asparagus
B00BC2 19885	ASPG036	Taylor Flats	04/25/90	Asparagus
B00BC3 19886	ASPG037	Taylor Flats	04/25/90	Asparagus
B00BC4 19887	ASPG038	Taylor Flats	04/25/90	Asparagus
B00BC5 19888	ASPG039	Taylor Flats	04/25/90	Asparagus
B00BC6 19889	ASPG040	Taylor Flats	04/25/90	Asparagus
B00BC7 19890-1	ASPG041	Taylor Flats	04/25/90	Asparagus
B00BC8 19892	ASPG042	Taylor Flats	04/25/90	Asparagus
B00BC9 19893	ASPG043	Taylor Flats	04/25/90	Asparagus
B00BD0 19894	ASPG044	Taylor Flats	04/25/90	Asparagus
B00BD1 19895	ASPG045	Taylor Flats	04/25/90	Asparagus
B00BD2 19896	ASPG046	Taylor Flats	04/25/90	Asparagus
B00BG3 19897	B00993	Sunnyside	05/11/90	Asparagus
B00BG4 19898	B00994	Sunnyside	05/11/90	Asparagus
B00BG5 19899	B00995	Sunnyside	05/11/90	Asparagus
B00BG6 19900-1	B00996	Sunnyside	05/11/90	Asparagus
B00BG7 19902	B00997	Sunnyside	05/11/90	Asparagus
B00BG8 19903	B00998	Toppenish	05/11/90	Asparagus
B00BG9 19904	B00999	Toppenish	05/11/90	Asparagus

<i>U #</i>	<i>Parent #</i>	<i>Stratum</i>	<i>Sample Date</i>	<i>Sample Type</i>
B00BH0 19905	B009B0	Toppenish	05/11/90	Asparagus
B00BH1 19906	B009B1	Toppenish	05/11/90	Asparagus
B00BH2 19907	B009B2	Toppenish	05/11/90	Asparagus
B00BH3 19908	B009B3	Toppenish	05/11/90	Asparagus
B00BD5 19909	B00975	Upriver	05/03/90	Asparagus
B00BD6 19910-1	B00976	Upriver	05/03/90	Asparagus
B00BD8 19912	B00978	Upriver	05/03/90	Asparagus
B00BD7 19913	B00977	Upriver	05/03/90	Asparagus
B00BJ1 19914	B009C1	Upriver	05/14/90	Asparagus
B00BJ0 19915	B009C0	Upriver	05/14/90	Asparagus
B00BH9 19916	B009B9	Upriver	05/14/90	Asparagus
B00CK5 19917	B009P9	Upriver	06/20/90	CHNA
B00CL2 19918	B009Q0	Upriver	06/20/90	POSA
B00CK1 19919	B009Q1	Upriver	06/20/90	CHNA
B00CL0 19920-1	B009Q2	Upriver	06/20/90	POSA
B00BF8 19922	B00988	West	05/07/90	Asparagus
B00BF7 19923	B00987	West	05/07/90	Asparagus
B00BF5 19924	B00985	West	05/07/90	Asparagus
B00BF6 19925	B00986	West	05/07/90	Asparagus

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/14/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19914
Plant Sample No: B00BJ1
Volume/Weight: 1.0230E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 7.10E-02 pCi/g	100%
U-235	< 4.40E-02 pCi/g	100%
U-238	< 2.70E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager

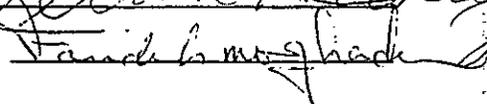
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/14/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19915
Plant Sample No: B00BJ0
Volume/Weight: 1.0059E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 6.90E-02 pCi/g	100%
U-235	< 3.70E-02 pCi/g	100%
U-238	< 3.10E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

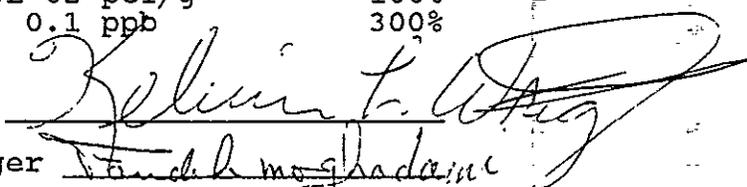
Laboratory Manager 

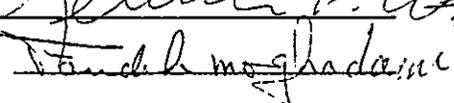
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/14/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19916
Plant Sample No: B00BH9
Volume/Weight: 1.0184E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 5.90E-02 pCi/g	100%
U-235	< 3.60E-02 pCi/g	100%
U-238	< 3.60E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager 

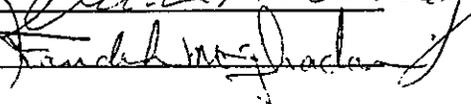
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 06/20/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19917
Plant Sample No: B00CK5
Volume/Weight: 4.6338E+00 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.20E-01 pCi/g	100%
U-235	< 2.60E-01 pCi/g	100%
U-238	< 1.90E-01 pCi/g	100%
Total U	0.7 ppb	300%

Project Manager 

Laboratory Manager 

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 06/20/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19918
Plant Sample No: B00CL2
Volume/Weight: 4.7032E+00 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.60E-01 pCi/g	100%
U-235	< 5.90E-02 pCi/g	100%
U-238	< 5.50E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

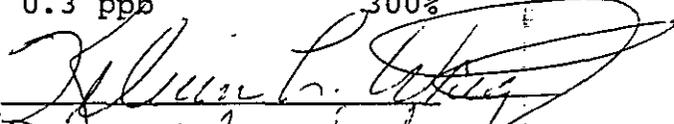
Laboratory Manager

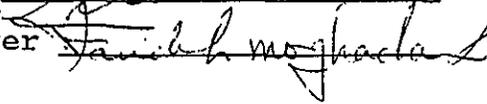
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 06/20/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19919
Plant Sample No: BOOCK1
Volume/Weight: 4.3247E+00 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.90E-01 pCi/g	100%
U-235	< 1.10E-01 pCi/g	100%
U-238	< 8.10E-02 pCi/g	100%
Total U	0.3 ppb	300%

Project Manager 

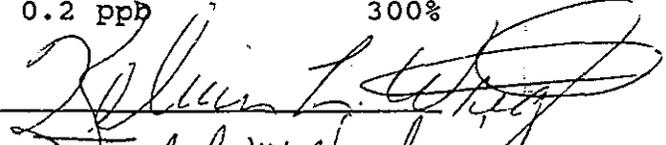
Laboratory Manager 

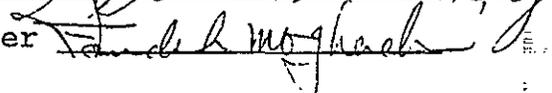
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 06/20/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19920
Plant Sample No: B00CL1
Volume/Weight: 5.5688E+00 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 7.50E-02 pCi/g	100%
U-235	< 7.70E-02 pCi/g	100%
U-238	< 6.40E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager 

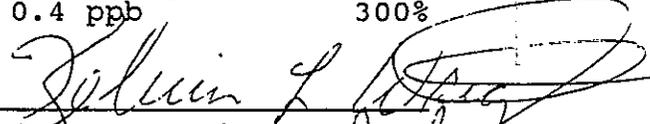
Laboratory Manager 

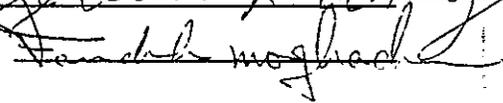
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/07/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19921
Plant Sample No: DUPLICATE B00BF7 (19923)
Volume/Weight: 1.0668E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 2.30E-01 pCi/g	100%
U-235	< 1.20E-01 pCi/g	100%
U-238	< 1.20E-01 pCi/g	100%
Total U	0.4 ppb	300%

Project Manager 

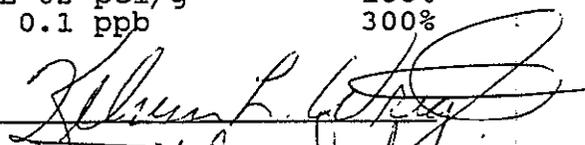
Laboratory Manager 

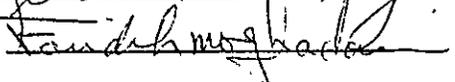
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/07/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19922
Plant Sample No: B00BF8
Volume/Weight: 1.1028E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 5.60E-02 pCi/g	100%
U-235	< 4.00E-02 pCi/g	100%
U-238	< 3.20E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager 

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

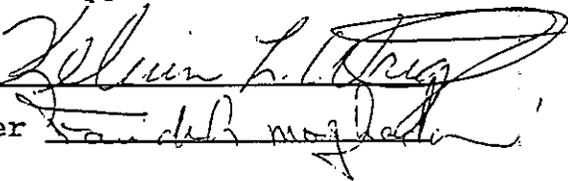
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/07/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19923
Plant Sample No: B00BF7
Volume/Weight: 1.0668E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 7.00E-02 pCi/g	100%
U-235	< 6.20E-02 pCi/g	100%
U-238	< 5.40E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

Laboratory Manager

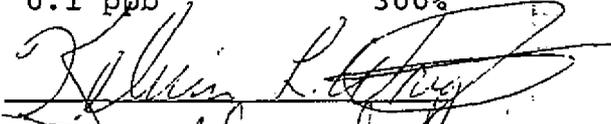


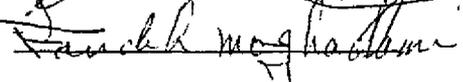
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/07/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19924
Plant Sample No: B00BF5
Volume/Weight: 1.0052E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 5.00E-02 pCi/g	100%
U-235	< 3.80E-02 pCi/g	100%
U-238	< 3.00E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

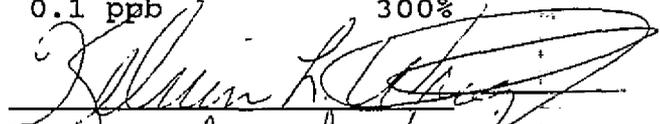
Laboratory Manager 

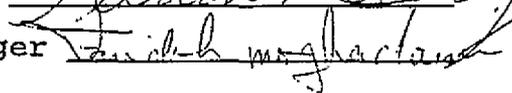
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford
Sample Type: Asparagus
Reference Date: 05/07/90
Receipt Date: 10/19/90
Reporting Date: 12/07/90
SAIC Sample No: 19925
Plant Sample No: B00BF6
Volume/Weight: 1.1042E+01 g (dry)
Purchase Order No: MPB-SVV-069146
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 6.80E-02 pCi/g	100%
U-235	< 1.90E-02 pCi/g	100%
U-238	< 2.50E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager 

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SAIC #	Customer ID	Date Received	Customer	Sample Received	Type	Sub Type	Net. WT.
19900	#B00846	10/14/90	Washington Field	5/11/90	Special	Solid	18.9230 g
19901	Duplicate #B00846	10/14/90	W.H.	5/14/90	Special	Solid	10.7821 g
19902	#B00847	10/14/90	W.H.	5/11/90	Special	Solid	10.8247 g
19903	#B00848	10/14/90	W.H.	5/11/90	Special	Solid	14.2417 g
19904	#B00849	10/14/90	W.H.	5/11/90	Special	Solid	10.4380 g
19905	#B00840	10/14/90	W.H.	5/11/90	Special	Solid	10.8095 g
19906	#B00841	10/14/90	W.H.	5/11/90	Special	Solid	11.2227 g 10.7001 g
19907	#B00842	10/14/90	W.H.	5/11/90	Special	Solid	10.7901 g
19908	#B00843	10/14/90	W.H.	5/11/90	Special	Solid	10.4319 g
19909	#B00845	10/14/90	W.H.	5/10/90	Special	Solid	10.2144 g
19910	#B00846	10/14/90	W.H.	5/3/90	Special	Solid	9.9845 g
19911	Duplicate #B00845	10/14/90	W.H.	6/20/90	Special	Solid	46.8389 g
19912	#B00848	10/14/90	W.H.	5/8/90	Special	Solid	9.4288 g
19913	#B00847	10/14/90	W.H.	5/8/90	Special	Solid	9.5175 g
19914	#B00841	10/14/90	W.H.	5/14/90	Special	Solid	14.2304 g
19915	#B00840	10/14/90	W.H.	5/11/90	Special	Solid	14.0507 g
19916	#B00849	10/14/90	W.H.	5/11/90	Special	Solid	14.1043 g

8-001

SAIC
ANALYTICAL LABORATORY
3 CHOKO CARRY ROAD
ROCKVILLE, MD 20850-4087
(301) 977-4430

SAIC #	Customer ID	INT	Date Received	Customer	Sample Reference	Type	Sub Type	Vol/Wt.	Comments	
19927	#B00CK5	SR	10/19/90	Washington Harbor (W.H.)	4/20/90	Special	Solid	4.6300 g		45 day
19918	#B00CL2	SR	10/19/90	W.H.	4/20/90	Special	Solid	4.7432 g		
19919	#B00CK1	SR	10/19/90	W.H.	4/20/90	Special	Solid	4.3247 g		
19920	#B00CL0	SR	10/19/90	W.H.	4/20/90	Special	Solid	5.5488 g		
19921	Duplicate #B00BF7	SR	10/19/90	W.H.	5/7/90	Special	Solid	16.6687 g		
19922	#B00BF8	SR	10/19/90	W.H.	5/7/90	Special	Solid	11.0203 g		
19923	#B00BF7	SR	10/19/90	W.H.	5/7/90	Special	Solid	10.6687 g		
19924	#B00BF5	SR	10/19/90	W.H.	5/7/90	Special	Solid	10.9515 g		
19925	#B00BFG	SR	10/19/90	W.H.	5/7/90	Special	Solid	11.0916 g		
19926	34184K	SR	10/23/90	D.C. Cook	10/7/90 - 10/15	White Water	N/A	968.3 ml		45 day
19927	34187K	SR	10/23/90	D.C. Cook	10/4/90 - 20	White Water	N/A	999.9 ml		
19928	34194K	SR	10/23/90	D.C. Cook	10/1/90 - 5/10	White Water	N/A	987.7 ml		
19929	Tritium in Water	SR	10/23/90	EPA	10/19/90 - 10/20	Special	Liquid	60.4921 ml		20 day
19930	K-85 + Xc 127	SR	10/24/90	NIST	10/22/90 - 12/20	Special	Liquid			45 day
19931	NRC-CC	SR	10/24/90	Brown's Ferry	10/19/90	Special	Liquid	456.3 ml		30 day
19932	IR2 Primary Resin	SR	10/28/90	Indian Point 2	10/16/90	Resin	Primary	1.7292 g	190 mg/lr	15 day
19933	O-90-147	SR	10/26/90	Brown's Ferry	7/16/90	Special	Liquid	33.0527 ml		30 day

SAIC
ANALYTICAL LABORATORY
3 CHOKE CHERRY ROAD
ROCKVILLE, MD 20850-4087
(301) 977-4480

8-002

WORK ORDER/INVOICE AUTHORIZATION

Plant:	HANFORD	Project No.:	1-139-05-656
SAIC Sample Nos.:	19914-19925	P. O. No.:	MPB-SVV-069146
Date Received:	10/19/90	Date Results Due:	12/03/90
Logged By:	LAURENT RICKS	Log Date:	10/19/90

✓	Quantity	Description	Unit Price	Total
	11	Uranium, isotopic	\$	
	11	Uranium, total	\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
			\$	
		Basic value	\$	
		Shipping charges (if any)	\$	
		Surcharges/late penalties	\$	
		Total amount due this invoice	\$	

Check (✓) at left if item subcontracted to another lab

Comments:

Sample Delivery Group No. B00BJ1

Subcontractor (if any):

Date sent out:

Date received:

Date due back:

Total cost:\$
(items checked)

(11/90)

12-1