







Science Applications International Corporation An Employee-Owned Company

December 5, 1990

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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. BOOB87 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.

BOOB87	19768
BOOB86	19769
BOOB85	19770
BOOB88	19772
BOOB84	19773
BOOB89	19774
BOO9V2	19775
BOO9V1	19776
BOO9V0	19777
BOO9T9	19778
BOO9T8	19779
BOO9T7	197 80
BOOB83	19782
BOOB81	19783
BOOB82	19784
BOOB93	19785
BOOB92	19786
BOOB91	19787
BOOB90	19788

3 Choke Cherry Road, Rockville, Maryland 20850 (301) 977-4480

Other SAIC Offices: Albuquerque, Boston, Colorado Springs, Dayton, Huntsvie, Las Vegas, Los Angeles, McLean, Oak Ridge, Orlando, Palo Alto. San Diego. Seattle. Tucson

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WHC Sample No.	SAIC Sample No.
BOOCJ2	19789
BOOCJ5	19790
BOOCJ0	19792
BOOCJ3	19793
BOOCJ1	19794
BOOCJ6	19795
BOOCH5	19796
BOOCJ8	19797
BOOCH8	19798
BOOCJ9	19799
BOOCH7	19800
BOOCJ7	19802
BOO9Q4	19803
BOO9Q6	19804
BOO9Q3	19805
BOO9Q5	19806
BOO9T1	19807
BOO9T2	19808
BOO9T3	19809
BOO9T4	19810
BOO9T6	19812
BOO9T5	19813
BOOB79	19814
BOOB78	19815

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

Type of Sample	SAIC Sample Numbers
Duplicate	19771
Duplicate	19781
Duplicate	19791
Duplicate	19801
Duplicate	19811

9713515.1943

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Type of Sample SAIC Sample Numbers Blank Blank 1 Blank Blank 2 Blank Blank 3 Blank Blank 4 Blank Blank 5 Blank Blank 6 Blank Blank 7 **Reference** Standard Spike 1 **Reference** Standard Spike 2 **Reference Standard** Spike 3 **Reference Standard** Spike 4 **Reference** Standard Spike 5 **Reference** Standard Spike 6 **Reference Standard** Spike 7 **Reference** Standard Spike 8 **Reference** Standard Spike 9

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

SAIC Analytical Laboratory 3 Choke Cherry Road Rockville, MD 20850-4087 December 7, 1990 Westinghouse Hanford Case Narrative Page 1 of 4

CASE NARRATIVE

Sample Delivery Group No. BOOB87 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:

WHC Sample No.	SAIC Sample No.	Sample Date	Sample Type
BOOB87	19768	05/21/90	Asparagus
BOOB86	19769	05/21/90	Asparagus
BOOB85	19770	05/21/90	Asparagus
BOOB88	19772	05/21/90	Asparagus
BOOB84	19773	05/21/90	Asparagus
BOOB89	19774	05/25/90	Asparagus
BOO9V2	19775	05/07/90	Asparagus
BOO9V1	19776	05/07/90	Asparagus
BOO9V0	19777	05/07/90	Asparagus
BOO9T9	19778	05/07/90	Asparagus
BOO9T8	19779	05/07/90	Asparagus
BOO9T7	19780	05/07/90	Asparagus
BOOB83	19782	05/21/90	Asparagus
BOOB81	19783	05/14/90	Asparagus
BOOB82	19784	05/14/90	Asparagus
BOOB93	19785	05/25/90	Asparagus
BOOB92	19786	05/25/90	Asparagus
BOOB91	19787	05/25/90	Asparagus
BOOB90	19788	05/25/90	Asparagus
BOOCJ2	19789	06/19/90	CHNA
BOOCJ5	19790	06/19/90	POSA
BOOCJ0	1 9792	06/19/90	CHNA
BOOCJ3	19793	06/19/90	POSA
BOOCJ1	1 9794	06/19/90	CHNA
BOOCJ6	19795	06/19/90	POSA
BOOCH5	19796	06/19/90	CHNA
BOOCJ8	19797	06/19/90	POSA
BOOCH8	19798	06/19/90	CHNA
BOOCJ9	19799	06/19/90	POSA
BOOCH7	19800	06/19/90	CHNA
BOOCJ7	19802	06/19/90	POSA
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Analytical Laboratory 3 Choke Cherry Road Rockville, MD 20850-4087 December 7, 1990 Westinghouse Hanford Case Narrative Page 2 of 4

WHC Sample No.	SAIC Sample No.	Sample Date	Sample Type
BOO9Q4	19803	04/20/90	Asparagus
BOO9Q6	19804	04/20/90	Asparagus
BOO9Q3	19805	04/20/90	Asparagus
BOO9Q5	19806	04/20/90	Asparagus
BOO9T1	19807	04/26/90	Asparagus
BOO9T2	19808	04/26/90	Asparagus
BOO9T3	19809	05/03/90	Asparagus
BOO9T4	19810	05/03/90	Asparagus
BOO9T6	19812	05/03/90	Asparagus
BOO9T5	19813	05/03/90	Asparagus
BOOB79	19814	05/14/90	Asparagus
BOOB78	19815	05/14/90	Asparagus

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

Issue	Reason
Detection limit of 1.2 pCi/g on samples	The laboratory was unable to achieve the
19778, 19790, 19794, 19802, 19799,	detection limit of 1.0 pCi/g on these samples
19797	due to the amount of sample available. Five (5)
	grams of sample was supplied, and ten (10)
	grams of this sample type are necessary to meet

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this detection limit. The lab generally allocates 50% of sample received for chemical separations and archives 50% to allow for any problems that

may arise or for a requested reanalysis.

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Issue

<u>Reason</u>

Recount of samples 19811, 19813, 19813, 19798, 19765,

The original count of these samples were slightly above background and the lab recounted the samples. The recount values were at background levels.

Redissolve and recount of samples 19785, 19786

Reanalysis of samples 19782, 19769, 19774

These samples indicated three to four times background levels of activity. The samples were redissolved and precipitated a second time and counted for beta activity. The second count indicated no significant level of beta activity. Technetium is precipitated as tetraphenyl arsonium perrehenate. This is a very large and bulky molecule and can sometimes capture naturally occuring potassium 40 inside the lattice of the compound. The original count probably reflected activity from potassium 40. Dissolving the sample in ethanol and re-precipitating probably removed the interfering ions.

These samples were reanalyzed due to unusually low yields. The samples were probably not mixed thoroughly wehn the tetraphenylarsonium chloride was added to the sample in the purification step of the procedure.



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Issue

Reason

Sample 19780 not duplicated (indicated as a duplicate QC sample)

This sample was not duplicated because a portion of the sample was spilled in transfer. In order to meet the 1 pCi/g detection limit, all of the remaining sample was used for one chemical separation.



Pacitic Northwest Laboratories	CHAIN	CHAIN OF CUSTODY			CAB 034	
Company Contact: CitArLES	A. 13:242 25		Те	lephone: <u>37</u>	6-5345	
Samples Collected by: A		Date:		Time:		
Sample Location:						
Ice Chest No.:KA			Field Logboo	k Page No.:		
Remarks: 99 Te Splits						
Method of Shipment: Hound	Carry Port Sample Identi	fication	Parcis	Wans Nonloce	Parent Annalae	
BOOB'27 BOO108 BOO9	T7 13,0979 X	XBOOCIO	BacigP5	1300906	ASPOULZ X	
Barz 26 BOORC7 BOOR	33 Baxicy X	XBac 13	300976	600903	ASTEDIAX	
Where is BUCACE BOCB	81 Bacg C.2 (XBac JI	B00973	13009.05	ASPGOLI X	
KB00B 88 13009 C9 B00B	82 Barg C3 Stapielos	XIBOOC J6	Baogpy	BOO9 TI	ASPGOY7	
BarB 74 Barges Bart	H Bacy DS KJE MINIGO	X/BOOCHS	BOOGPI	BOOG TZ	ASTGO48 X	
BID3 87 BOODO BOOD	13 B00904X	X Bac 18	8009P2	600973	B00975 X	
XBOOGVZ BOOG84 BOOB	92 2009 D3 X	X BOOCHS	BOONG	BODGTY	300976	
BOURVI BOD 983 BOOR	91 BOOG D2 X	X1300059	300970	1300976	B00978 X	
XBOCANO BOOG 82 BOOB	40 BOO9 DIX	XBOOCH7	BOOANT.	BO0975	B00977 X	
XB00979 B00981 10000	TZ BOCYP7X	XVBCCCT 7	B009N8	B00 1379	BOORCIX	
VBODAT & BODA 80 BODC	IS BOOMPS X	X1300904	A576020	B00378	Bangcox	

Chain of Possession

Relinquished by:

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by: Dichor SATC Received by:

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1-ACCOUN 3-PROPERT	TS PAYABL	E COPY EMENT COPY	24	HUYER'S COPY		5	0				JUL /

99Tc #'	Parent #	Stratum	Sample Date	Sample Type
B00B87	B009C8	300 Downriver	05/21/90	Asparagus
B00B86	B009C7	300 Downriver	05/21/90	Asparagus
B00B85	B009C6	300 Downriver	05/21/90	Asparagus
B00B88	B009C9	300 Downriver	05/21/90	Asparagus
B00B84	B009C5	300 Downriver	05/21/90	Asparagus
B00B89	B009D0	300 Downriver	05/25/90	Asparagus
B009V2	B00984	Downriver	05/07/90	Asparagus
B009V1	B00983	Downriver	05/07/90	Asparagus
B009V0	B00982	Downriver	05/07/90	Asparagus
B009T9	B00981	Downriver	05/07/90	Asparagus
B009T8	B00980	Downriver	05/07/90	Asparagus
B009T7	B00979	Downriver	05/07/90	Asparagus
B00B83	B009C4	Downriver	05/21/90	Asparagus
B00B81	B009C2	Operable Unit	05/14/90	Asparagus
B00B82	B009C3	Operable Unit	05/14/90	Asparagus
B 00B94	B009D5	Operable Unit	05/25/90	Asparagus
B00B93	B009D4	Operable Unit	05/25/90	Asparagus
B00B92	B009D3	Operable Unit	05/25/90	Asparagus
B00B91	B009D2	Operable Unit	05/25/90	Asparagus
B00B90	B009D1	Operable Unit	05/25/90	Asparagus
B00CJ2	B009P7	Operable Unit	06/19/90	CHNA
B00CJ5	B009P8	Operable Unit	06/19/90	POSA C 7
B00CJ0	B009P5	Operable Unit	06/19/90	CHNA 2
B00CJ3	B009P6	Operable Unit	06/19/90	POSA
B00CJ1	B009P3	Operable Unit	06/19/90	CHNA
B00CJ6	B009P4	Operable Unit	06/19/90	POSA
B00CH5	B009P1	Operable Unit	06/19/90	CHNA
B00CJ8	B009P2	Operable Unit	06/19/90	POSA
B00CH8	B009N9	Operable Unit	06/19/90	CHNA
B00CJ9	B009P0	Operable Unit	06/19/90	POSA
B00CH7	B009N7	Operable Unit	06/19/90	CHNA
B00CJ7	B009N8	Operable Unit	06/19/90	POSA
B009Q4	ASPG020	South Plateau	04/20/90	Asparagus
B009Q6	ASPG022	South Plateau	04/20/90	Asparagus
B009Q3	ASPG019	South Plateau	04/20/90	Asparagus
B009Q5	ASPG021	South Plateau	04/20/90	Asparagus
B009T1	ASPG047	South Plateau	04/26/90	Asparagus

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99Tc # -	Parent #	Stratum	Sample Date	Sample Type	
B009T2	ASPG048	South Plateau	04/26/90	Asparagus	
B009T3	B00975	Upriver	05/03/90	Asparagus	ab
B009T4	B00078	Upriver	05/03/90	Asparagus	F
B009T6	B00978	Upriver	05/03/90	Asparagus	
B009T5	B00977	Upriver	05/03/90	Asparagus	
B00B79	B009C1	Upriver	05/14/90	Asparagus	
B00B78	B009C0 ~	Upriver	05/14/90	Asparagus	
B00B77	B009B9	Upriver	05/14/90	Asparagus	
B00CH6	B009P9	Upriver	06/20/90	CHNA	
BOOCKO	B009Q0	Upriver	06/20/90	POSA	
B00CH9	B009Q1	Upriver	06/20/90	CHNA	
B00CJ4	B009Q2	Upriver	06/20/90	POSA	
B009V6	B00988	West	05/07/90	Asparagus	
B009V5	B00987	West	05/07/90	Asparagus	
B009V3	B00985	West	05/07/90	Asparagus	- 10
B009V4	B00986	West	05/07/90	Asparagus	

- BOCAQT ASPG 023 B 009@9 ASPG 025 BOOGRO A576026 A 576 028 BOOGRZ
- B00907 B00989 300990 B00908 3009R4 A5P6030 B009 R7 A576033 1300 956 A486.042 B00959 ASP6:045 BCOquq 300991 Boogwo 300992 B009 40 4576036 A4P6037 300951
- Hanton Towns te 04/24/90 Hanford Townside 04/24/90 Hanford Tonars. 20 04/24/90 Han ford Torns it 04/24 190
- Sunny side 05/08/90 Sunnya. de 05/08/90 Taylor Flats 04/25/90 Taylor Flats 04/25/90 Tanta Flats 04/25/90 Taylor Flats 04125190 Toppeniate Toppeniate 05105190 05/08/20 Tainle Flats 04/25190 TaylorFlats 04125190

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Asparagus

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid O5/21/90 12:00 10/19/90 12/07/90 19768 U# B00B87 8.6540E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con (uCi/q (ncentration (dry))
Nuclide Va	alue % Unc. MDL
99-Tc 1.92	2E-07/ , 177 ×5.4E-07
Project Manager	Illing to the
Laboratory Manager	Fdihmethadam A

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 05/21/90 12:00 10/19/90 12/07/90 19769 U# B00B86 9.1351E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con (uCi/g (centration
Nuclide Va	lue % Unc. MDL
99-Tc -1.14	E-06 62 <1.3E-06-7
Project Manager	Avin turing
Laboratory Manager	h mothada

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.

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 05/21/90 12:00 10/19/90 12/07/90 19770 U# B00B85 8.9842E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Cor	ncentration
Nuclide Va	alue % Unc. MDL
99-Tc -7.83	3E-07 60 <8.7E+07
Project Manager	lun h & feig
Laboratory Manager Faith	ch mothe dame

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.

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number	<pre>: Hanford : Special, Solid : 06/20/90 12:00 : 10/19/90 : 12/07/90 : 19771 : DUPLICATE 19745, U# B00CK0 : 4.2545E+00 g (dry) : MPB-SVV-069146 : 1-139-05-656</pre>
SAIC FIOJECC NUMBER	. 1-139-05-656
Measured Cor (uCi/g (<pre>ncentration (dry))</pre>
Nuclide Va	alue % Unc. MDL
99-Tc -5-37	1E-07/ 125 <1.2E-06
Project Manager	illin pitter
Laboratory Manager	chh motharlam
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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>: Hanford : Special, Solid : 05/21/90 12:00 : 10/19/90 : 12/07/90 : 19772 : U# B00B88 : 1.0002E+01 g (dry) : MPB-SVV-069146 : 1-139-05-656</pre>
Measured Con (uCi/g (Nuclide Va	dry)) lue % Unc. MDL
99-Tc 2-97	'E-08, 456, 57.1E-07
Project Manager Laboratory Manager Fau	dhi mothadienne

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid Special, Solid O5/21/90 12:00 10/19/90 12/07/90 19773 U# B00B84 8.5956E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con	ncentration
(uci/g ((ary))
Nuclide Va	alue % Unc. MDL
	-),
99-Tc -1.93	3E-96 69 <1-3E-06 /
Project Manager	Ulin Litting
Laboratory Manager	- din mothadame

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford	
Sample Type	:	Special, Solid	
Reference Date/Time	:	05/25/90 12:00	
Receipt Date	:	10/19/90	
Reporting Date	:	12/07/90	
SAIC Sample Number	:	19774	
Plant Sample ID	:	U# B00B89	
Volume/Weight	:	8.3858E+00 g (dry)	
Purchase Order Number	:	MPBSVV069146	
SAIC Project Number	:	1-139-05-656	
-			
Measured Cor	ncer	ntration	
(uCi/g	(dry	y))	
Nuclide Va	alue	e % Unc. MDL	
99-Tc 3.28	3E-	08 3040 <1.6E-06	
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Project Manager

Laboratory Manager

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	• • • • • • • • •	Hanford Special, 05/07/90 10/19/90 12/07/90 19775 U# B009V2 9.6225E+0 MPB-SVV-0 1-139-05-	Solid 12:00 200 g (c 069146 -656	lry)		
Measured Cor	ncer (dry	ntration				
Nuclide Va	alue	e % Ur	nc.	MDL		
99-Tc 4.56	5EZ	11		7.8E-07		
Project Manager		lling	5.8	<u>Ulle</u>	7	/
Laboratory Manager Taur	<u>I</u>	h motha	diem	<u> </u>		

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid Special, Solid 10/19/90 12/07/90 12/07/90 19776 U# B008V1 8.4336E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Cor	ncentration (drv))
Nuclide Va	alue % Unc. MDL
99-TC 5.92	2E-07 62 <6.7E-07
Project Manager	Allingh attag
Laboratory Manager	den mogladami /

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 05/07/90 12:00 10/19/90 12/07/90 19777 U# B009V0 7.9310E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con (uCi/g (centration
Nuclide Va	alue % Unc. MDL
99-TC 25	55E-07/ 152 6.1E-07
Project Manager	Je Min To there
Laboratory Manager Fall	dit mo padame

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid O5/07/90 12:00 10/19/90 12/07/90 19778 U# B009T9 8.9111E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con (uCi/q (centration (drv))
Nuclide Va	alue % Unc. MDL
99-TC -4,49	DE-07 154 1.2E-06
Project Manager	lint atig
Laboratory Manager	chip meghadam

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	••••••••••••••••	Hanford Special, 05/07/90 10/19/90 12/07/90 19779 U# B009T8 8.8680E+0 MPB-SVV-0 1-139-05-	Solid 12:00 3 00 g (d: 069146 -656	ry)
Measured Cor	icer	ntration		
Nuclide Va	1112	/// > % ∐1		MDT.
99-Tc -9.53	E-G	07 60) 41	.1E-06
Project Manager	U	in K.	ttp	
Laboratory Manager	d	i motha	dand	<u>/</u>

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid Special, Solid 10/19/90 12/07/90 12/07/90 19780 U# B009T7 8.9855E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con	centration
Nuclide Va	lue & Unc MDL
99-TC -2 10	P-07 962 <3.6F-07-
Project Manager	Allen A la Mere
Laboratory Manager	The moghadam

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford	
Sample Type	:	Special, Solid	
Reference Date/Time	:	05/21/90 12:00	
Receipt Date	:	10/19/90	
Reporting Date	:	12/07/90	
SAIC Sample Number	:	19782	
Plant Sample ID	:	U# B00B83	
Volume/Weight	:	8.4800E+00 g (dry)	
Purchase Order Number	:	MPB-SVV-069146	
SAIC Project Number	:	1-139-05-656	
Measured Concentration			

(uci/g (dry))	0	WDT	
Nuclide	Value	% Unc.	MDL	
99-Tc	-5.85E-07	125	<1-3E-06	-
Project Manager	Kollin	- F. H	Hard	
Laboratory Manager	Fandik W	w laade	m	
		<u>`-</u> '		

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Laboratory Manager

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	er	Hanford Special, 05/14/90 10/19/90 12/07/90 19783 U# B00B83 8.2857E+0 MPB-SVV-0 1-139-05	Solid 12:00 1 00 g (0 069146 -656	dry)	
Measured	Conce	ntration			
(uCi/	g (ar	Y))			
Nuclide	Valu	e %Uı	nc.	MDL	
99-Tc	.99E-	07 21	4 <6	·8E-07	
Project Manager	Ile	un Th	. LE	ALA	_

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 05/14/90 12:00 10/19/90 12/07/90 19784 U# B00B82 9.2226E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>	
Measured Cor (uCi/g (ncentration (dry))	
Nuclide Va	alue % Unc. MDL	
99-Tc 5.17E-08	8. 613 <5.2E-07	ļ
Project Manager	Ullin T. GAR	-
Laboratory Manager Tour	der mog badama	

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19785
Plant Sample ID	:	U# B00B93
Volume/Weight	:	8.9634E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measu	ired Concentrat	ion	
((uCi/g (dry))		
Nuclide	Value	% Unc.	MDL
99-TC	-6.62E-98	600	<6,6E-07/
Project Manager	Alluin	h.H.	har
Laboratory Manager	Fatadah h	r-ilanda	rech
		A	

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19786
Plant Sample ID	:	U# B00B92
Volume/Weight	:	8.5508E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measur	ed Concentrat	tion		
(u	Ci/g (dry))			
Nuclide	Value	% Unc.	MDL	
99-TC	-4.92E-07	102,	<8.8E-07	
Project Manager	Kelun	LL/	Unas	
Laboratory Manager	Fartickh her	hadam		

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford		
Sample Type	:	Special,	Solid	
Reference Date/Time	:	05/25/90	12:00	
Receipt Date	:	10/19/90		
Reporting Date	:	12/07/90		
SAIC Sample Number	:	19787		
Plant Sample ID	:	U# B00B9	1	
Volume/Weight	:	8.3309E+	00 g (d:	ry)
Purchase Order Number	:	MPB-SVV-	069146	
SAIC Project Number	:	1-139-05	-656	
Measured Con	nce	ntration		
(uCi/g	(dr	Y))		
Nuclide Va	alu	e % U	nc.	MDL

Nuclide	value	% Unc.	MDL
99-TC	-1.02E-06/ 4	4 <8.6E7,07	1
Project Manager	Kelman	~ h.H.	The
Laboratory Manage	er Frankh	methodams	1

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford		
Sample Type	:	Special,	Sol	id
Reference Date/Time	:	05/25/90	12:0	00
Receipt Date	:	10/19/90		
Reporting Date	:	12/07/90		
SAIC Sample Number	:	19788		
Plant Sample ID	:	U# B00B9(C	
Volume/Weight	:	8.0832E+0	p 00	(dry)
Purchase Order Number	:	MPB-SVV-0)69Ī	46
SAIC Project Number	:	1-139-05-	-656	
-				
Measured Con	nce	ntration		
(uCi/g	(dr	Y))		
Nuclide Va	alu	e %Uı	nc.	MDL
	28-1		15	735-07

99-TC -2.90E-07 145 T.3E-07 Project Manager

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19789
Plant Sample ID	:	U# B00CJ2
Volume/Weight	:	5.8982E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656
Measured Con (uCi/g	nce (dr	ntration y))
Nuclide Va	alu	e % Unc. MDL
99-Tc -5.5	ιe-	07 81, <8.0E-07
Project Manager	U	linto little
Laboratory Manager	l	h moghadomi

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Science Applications International Corporation Radioactive Sample Analysis Report

:	Hanford
:	Special, Solid
:	06/19/90 12:00
:	10/19/90
:	12/07/90
:	19790
:	U# BOOCJS
:	4.5775E+00 g (dry)
:	MPB-SVV-069146
:	1-139-05-656

Measured Concentration					
(uCi	/g (dry))				
Nuclide	Value	% Unc.	MDL		
99-Tc -	6.00E-07/	119	<1.2E-06		
Project Manager	XIII.	La G	fees		
Laboratory Manager	Judek he	Thadie	in		

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19791
Plant Sample ID	:	DUPLICATE 19789, U# BOOCJ5
Volume/Weight	:	5.8982E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measu	red Concentrat	ion		
(1	uCi/g (dry))			
Nuclide	Value	% Unc.	MDL	
99-TC	-3-40E-07	145 //	<8.5E-07	
Project Manager	Alle	m. K.	Kain	
Laboratory Manager	For def 1	whale	m	
the state of the second st		Mala Jam		

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid O6/19/90 12:00 10/19/90 12/07/90 19792 U# B00CJ0 5.6310E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Cor	ncentration (drv))
Nuclide Va	alue % Unc. MDL
99-Tc -2,34	4E-07 219 <8.7E-07
Project Manager	fillen To HAR
Laboratory Manager	the methadame

Science Applications International Corporation Radioactive Sample Analysis Report

Pl Sa Re Re SA Pl Vc Pu SA	lant Name ample Type ference Date/Time ceipt Date porting Date AIC Sample Number lant Sample ID plume/Weight archase Order Number AIC Project Number		Hanford Special, Solid 06/19/90 12:00 10/19/90 12/07/90 19793 U# B00CJ3 3.8372E+00 g (dry) MPB-SVV-069146 1-139-05-656
	Measured Co	oncei (dry	ntration
	Nuclide	/alue	e % Unc. MDL
	99-TC _2.3	30E/J	07 223 (8/2E-07)

Project Manager

Laboratory Manager
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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid O6/19/90 12:00 10/19/90 12/07/90 19794 U# B00CJ1 5.8825E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>	
Measured Con	oncentration	
Nuclide Va	Value % Unc. MDL	
99-TC	57E-01 270 91.2È-06	;
Project Manager	Allin & Hour	
Laboratory Manager	- d-h mt- Thadians	

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 06/19/90 12:00 10/19/90 12/07/90 19795 U# B00CJ6 5.0794E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con	centration
Nuclide Va	lue, % Unc. MDL
	, , - <u></u>
99-Tc 4,48	E-07/ ,164 //s1-2E-06
Project Manager	King Cillan
Laboratory Manager	the moth adjune

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Science Applications International Corporation Radioactive Sample Analysis Report



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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid O6/19/90 12:00 10/19/90 12/07/90 19797 U# B00CJ8 3.7303E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Co	ncentration (drv))
Nuclide V	alue % Unc. MDL
99-Tc 7.4	2E-07 157 <1.8E-06
Project Manager	Kelling T. Kelling
Laboratory Manager	J. L. moghadami

97 135 15. 1981

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19798
Plant Sample ID	:	U# B00CH8
Volume/Weight	:	6.9929E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration				
(ບ	Ci/g (dry))			
Nuclide	Value	% Unc.	MDL	
	/			
99-TC	-1.20E-06//	36	<8.6E-07	
Project Manager	XIL.IL.	n Ta.	CHAR .	-
Laboratory Manager	FALL	harila		
Laboratory hanager	- A A A A A A A A A A A A A A A A A A A	The back		
	/ -			

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number	• • • • • • • • •	Hanford Special, Solid 06/19/90 12:00 10/19/90 12/07/90 19799 U# B00CJ9 4.8675E+00 g (dry) MPB-SVV-069146		
Purchase Order Number	:	MPB-SVV-069146		
SAIC Project Number	:	1-139-05-656		
Measured Concentration (uCi/g (dry))				

Nuclide	Value	% Unc.	MDL	
99-Tc	3.72E-07/	232	<1.4E=06	
Project Manager	Vilie	n Kil	Chier -	
Laboratory Manage	r Fail in	an-sharti	mi	
			., .	

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 06/19/90 12:00 10/19/90 12/07/90 19800 U# B00CH7 6.1903E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Cor (uCi/g	centration
Nuclide Va	alue % Unc. MDL
99-TC 3.46	5E-07, 192 <u>1.1E-06</u>
Project Manager	Allin To Hoping
Laboratory Manager Four	deh mo-shadami

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 Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID	: Hanford : Special, Solid : 06/19/90 12:00 : 10/19/90 : 12/07/90 : 19801
Planc Sample ID	: DUPLICATE 19789, $0 \# B00904$
volume/weight	: 1.028/E+01 g (ary)
Purchase Order Number	: MPB-SVV-069146
SAIC Project Number	: 1-139-05-656
Measured Con (uCi/g (ncentration (dry))
Nuclide Va	alue % Unc. MDL
99-Tc -3-24	4E-07 125 <7.1E-07

1 Asin

Project Manager

Laboratory Manager Fridadh hur-1

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/10/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19802
Plant Sample ID	:	U# B00CJ7
Volume/Weight	:	4.3871E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656
-		
Mongurod Cor		at wat i an

Measured Concentration						
(u	(uCi/g (drv))					
Nuclide	Value	% Unc.	MDL			
	/					
99-Tc	-1-02E-06	64	<1.2E-06			
Project Manager	Alla	in Ft	the	$ \rightarrow $		
Laboratory Manager	tan the mo	ikada	mi			

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/20/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19803
Plant Sample ID	:	U# B009Q4
Volume/Weight	:	1.0287E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656
-		

Measured Concentration							
Nuclide	Value	% Unc.	MDL				
	$1 10\pi - 0$	168	16 -07				
99-10	1.186-08	· 109	50-2E-07	10			
Project Manager	_ Alliun	- La Ci	Tilly				
Laboratory Manager	tandha	malla	dume				

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.

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number		Hanford Special, Solid 04/20/90 12:00 10/19/90 12/07/90 19804 U# B009Q6 1.0441E+01 g (dry) MPB-SVV-069146 1-139-05-656
Measured Cor (uCi/g (icer dry	tration ())
Nuclide Va	lue	e % Unc. MDL
99-Tc -1 88	E-C	7 . 125 <4.1E-07
Project Manager	1/2	him to the
Laboratory Manager Tay	di	h meghadona

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/20/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19805
Plant Sample ID	:	U# B00903
Volume/Weight	:	1.0345E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number		1-139-05-656
Measured Cor (uCi/g (icei (dr	ntration y))
Nuclide Va	lue	e % Unc. MDL
99-10 -10	, <u>-</u> '	204 (0.2007
Project Manager	4	lin hotting -
Laboratory Manager	11	a mailana

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 04/20/90 12:00 10/19/90 12/07/90 19806 U# B009Q5 1.0402E+01 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Cor	centration
Nuclide Va	lue % Unc. MDL
99-TC -6.80)E-08 (499 5-7E-07
Project Manager	Alter Stilling
Laboratory Manager Kain	del maybadam

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid O4/26/90 12:00 10/19/90 12/07/90 19807 U# B009T1 1.0338E+01 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Con	ncentration (drv))
Nuclide Va	alue % Unc. MDL
99-Tc 2.1	5E-07 / 209 <7.2E-07
Project Manager	Alling The Charge
Laboratory Manager	The instruction

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid O4/26/90 12:00 10/19/90 12/07/90 19808 U# B009T2 1.0444E+01 g (dry) MPB-SVV-069146 1-139-05-656</pre>
Measured Cor	ncentration
(uC1/g ((dry))
Nuclide Va	alue % Unc. MDL
99-TC -4.77	E = 07, 74 $< 6.4E = 07$)
Project Manager	filin fil Arent
Laboratory Manager	det moghadie ma

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Tin Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Num SAIC Project Number	<pre>: Hanford : Special, Solid ne : 05/03/90 12:00 : 10/19/90 : 12/07/90 : 19809 : U# B009T3 : 9.5277E+00 g (dry) mber : MPB-SVV-069146 er : 1-139-05-656</pre>
Measured (uCi	Concentration
NUCLIAE	Value & Unc. MDL
99-Tc Project Manager	6 97E-07 58 7.4E-07
Laboratory Manager	atick moghadame

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford		
Sample Type	:	Special, Solid		
Reference Date/Time	:	05/03/90 12:00		
Receipt Date	:	10/19/90		
Reporting Date	:	12/07/90		
SAIC Sample Number	:	19810		
Plant Sample ID	:	U# B009T4		
Volume/Weight	:	9.5898E+00 g (dry)		
Purchase Order Number	:	MPBSVV069146		
SAIC Project Number	:	1-139-05-656		
Measured Concentration				

Measureu	concentrat.	LOII		
(uCi	/g (dry))			
Nuclide	Value	% Unc.	MDL	
99-Tc	3.36E-08,1	1060	<5.8E-07	
Project Manager	Xilli	in X	. When	
Laboratory Manager	andlyn	hades	ani	

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19811
Plant Sample ID	:	DUPLICATE 19766, U# BOO9S0
Volume/Weight	:	1.1084E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656
-		

Measui	red Concentra	tion		
(1	uCi/g (dry))			
Nuclide	Value	% Unc.	MDL	
99-TC	-2.14E-07/	153 // 0	5.6E-07	1
Durationation Management	~~~	\neq \neq \neq		$ \rightarrow $
Project Manager	_ LULL	20phili	lice	
Laboratory Manager	Failikn	10-shadren	u A	
	,	51		

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name Sample Type Reference Date/Time Receipt Date Reporting Date SAIC Sample Number Plant Sample ID Volume/Weight Purchase Order Number SAIC Project Number	<pre>Hanford Special, Solid 05/03/90 12:00 10/19/90 12/07/90 19812 U# B009T6 8.7850E+00 g (dry) MPB-SVV-069146 1-139-05-656</pre>	
Measured Conc	centration	
Nuclide Val	lue % Unc. MDL	
99-TC -5,53E	E-07, 65 <6.6E-07	\geq
Project Manager	fluin halthig	
Laboratory Manager Tanth	the meshademe	

Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/03/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19813
Plant Sample ID	:	U# B009T5
Volume/Weight	:	8.8775E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measu	red Concentrat	ion		
()	uCi/g (dry))			
Nuclide	Value	% Unc.	MDL	
99-Tc	-4.732-07	77	<6-6F-07	
Project Manager	Killin	- h.ll	ling	
Laboratory Manager	Findenm	thada.	m	
		<u>`</u> .		

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/14/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19814
Plant Sample ID	:	U# B00B78
Volume/Weight	:	8.7348E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656
Measured Con (uCi/g	nce (dr	ntration y))

Nuclide	(uci/g (ui <u>y</u>)) Value	% Unc.	MDL	
99-TC	-2.43E-07//	152 /7	<6-3E-07	
Project Manager	Ru	in the	totuc	\leq
Laboratory Manag	er Fanden M	nogkade	e mai	

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Science Applications International Corporation Radioactive Sample Analysis Report

Plant Name	:	Hanford			
Sample Type	:	Special,	Solid		
Reference Date/Time	:	05/14/90	12:00		
Receipt Date	:	10/19/90			
Reporting Date	:	12/07/90			
SAIC Sample Number	:	19815			
Plant Sample ID	:	U# B00B79)		
Volume/Weight	:	8.8022E+C)0 g (d	dry)	
Purchase Order Number	:	MPB-SVV-C	69146		
SAIC Project Number	:	1-139-05-	•656		
Measured Cor	icer	ntration			
(uCi/g (dry	Y))			
Nuclide Va	lue	e %Ur	nc.	MDL	
99 - Tc -5.57	'E-()7 55	5/1 (</td <td>5.7E-07</td> <td>/</td>	5.7E-07	/
	111	· · · · · · · · · · · · · · · · · · ·		1	\sim
Project Manager	<u></u>	I'm h		RLC.	
		Λ .	1	1.	
Laboratory Manager	chi	-1 mos	indel	Frien	

SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Bl#1
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	11/27/90
Sample Counting Date	:	11/27/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.4200E+01 mg
Weight of filter+precipitate	:	4.9600E+01 mg
Weight of precipitate	:	1.5400E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.0096E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	8.9000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2289E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.8878E-06 uCi/ ml

SG 12/05/90 Klic 12/5/ Data entered by Data checked by ______

9713515.2000

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SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Bl#2
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #1
Reference Date	:	11/27/90
Sample Counting Date	:	11/27/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.1600E+01 mg
Weight of precipitate	:	1.7300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.8744E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.0500E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1761E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7451E-06 uCi/ ml

Data entered by 12/05/90 SG Data checked by 190

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SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	B1#3
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	11/28/90
Chemistry Completion Date	:	11/28/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.1700E+01 mg
Weight of precipitate	:	1.7400E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.9199E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	7.2000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1731E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7331E-06 uCi/ ml

Data entered by SG Data checked by

12/05/90 [g 0

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SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Bl#4
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	11/30/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.1700E+01 mg
Weight of precipitate	:	1.7400E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.9199E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	9.0000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1731E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7331E-06 uCi/ ml

Data entered by ,12/05/90 SG 14u Data checked by _ 90

97 135 15.2003

SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Bl#5	
Total sample volume/weight	:	1.0000E+00	ml
Sample volume/weight used	:	1.0000E+00	ml
Counter used	:	Tennelec #2	2
Reference Date	:	12/02/90	
Sample Counting Date	:	12/02/90	
Chemistry Completion Date	:	11/30/90	
Weight of filter	:	3.3900E+01	mg
Weight of filter+precipitate	:	4.9200E+01	mg
Weight of precipitate	:	1.5300E+01	mg
Carrier concentration	:	2.1970E+01	mg/ml
Carrier volume	:	1.0000E+00	ml
Carrier weight	:	2.1970E+01	mg
Yield	:	6.9640E-01	
Background counts	:	1.1500E+02	
Background count time	:	5.0000E+01	min
Gross counts	:	5.4000E+01	
Gross count time	:	5.0000E+01	min
Efficiency	:	2.2311E-01	
Impurities	:	0.0000E+00	
Impurities uncertainty	:	0.0000E+00	

Tc-99 Concentration < 2.9037E-06 uCi/ ml

12/05/90 Data entered by SG Data checked by ______

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SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Bl#6
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	12/02/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.0600E+01 mg
Weight of precipitate	:	1.6300E+01 mc
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.4192E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	9.2000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2089E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7530E-06 uCi/ ml

Data entered by SG 12/05/90 Ku' 190 Data checked by

9713515.2005

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SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Blank 7	
Total sample volume/weight	:	1.0000E+00 m	l
Sample volume/weight used	:	1.0000E+00 m	1
Counter used	:	Tennelec #2	
Reference Date	:	12/04/90	
Sample Counting Date	:	12/04/90	
Chemistry Completion Date	:	12/04/90	
Weight of filter	:	3.4300E+01 m	ıg
Weight of filter+precipitate	:	5.0100E+01 m	ıg
Weight of precipitate	:	1.5800E+01 m	ıg
Carrier concentration	:	2.1970E+01 m	ng/ml
Carrier volume	:	1.0000E+00 m	l
Carrier weight	:	2.1970E+01 m	ng
Yield	:	7.1916E-01	
Background counts	:	1.150 <u>0E</u> +02	
Background count time	:	5.0000E+01 m	nin
Gross counts	:	5.9000E+01	
Gross count time	:	5.0000E+01 m	nin
Efficiency	:	2.2200E-01	
Impurities	:	0.0000E+00	
Impurities uncertainty	:	0.0000E+00	

Tc-99 Concentration < 2.8259E-06

uCi/ ml

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Data	entered	by	VC	12/07/90
Data	checked	by	<u>FM</u>	1-17150

9713515.2006

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SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Spike 1 10/HIT
Total sample volume/weigh	t :	1.0000E+01 mĺ
Sample volume/weight used		1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.3400E+01 mg
Weight of filter+precipit	ate :	5.4000E+01 mg
Weight of precipitate	:	2.0600E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.3764E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3080E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.0797E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00
Tc-99 Concentration 5.4	654E-0	6 +/- 6 % uCi/ ml

Initials Date

Data	entered	by	KLW	12/05/90
Data	checked	by	\underline{c}	12.7.90

9713515.2007

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SAIC - Tc-99 Analysis Program Version 1.00

		$ - \tau / \dots /$
Sample type	:	Spike X 1c/HIt-
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/28/90
Weight of filter	:	3.2400E+01 mg
Weight of filter+precipita	te :	5.3250 <u>E</u> +01 mg
Weight of precipitate	:	2.0850E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.4902E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3250E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.0726E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00
Tc-99 Concentration 5.54	20E-0	6 +/- 6 % uCi/ ml

Initials Date

Data	entered	by	KLW	12/05/90
Data	checked	by	<u> </u>	12.7.90

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SAIC - Tc-99 Analysis Program Version 1.00

		DITHH
Sample type	:	Spike 5/ 10 111
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #2
Reference Date	:	12/01/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.2900E+01 mg
Weight of filter+precipita	te :	5.4200E+01 mg
Weight of precipitate	:	2.1300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.6950E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3740E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1012E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00
Tc-99 Concentration 5.56	78E-0	6 +/- 6 % uCi/ ml

Data	entered	by	KLW	12/05/90
Data	checked	by	\mathbb{C}	12.790

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SAIC - Tc-99 Analysis Program Version 1.00

	Sample type Total sample volume/weight Sample volume/weight used Counter used Reference Date Sample Counting Date Chemistry Completion Date Weight of filter Weight of filter+precipitate Weight of precipitate Carrier concentration Carrier volume Carrier weight Yield Background counts Background count time Gross counts Gross count time Efficiency Impurities Impurities uncertainty		Spike 4 Te 1.0000E+01 1.0000E+01 Tennelec #2 12/01/90 12/02/90 11/30/90 3.2900E+01 5.4200E+01 2.1300E+01 1.0000E+01 1.1500E+02 5.0000E+01 1.3660E+03 5.0000E+01 2.1012E-01 0.0000E+00 0.0000E+00	//+/+ ml ml mg mg/ml mg/ml mg min min
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Tc-99 Concentration 5.5324E-06 +/- 6 % uCi/ ml

InitialsDateData entered byKLW12/05/90Data checked byM12.7.9

SAIC - Tc-99 Analysis Program Version 1.00

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Sample type	:	Spike 5 To/HL
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4100E+01 mg
Weight of filter+precipitate	:	5.0200E+01 mg
Weight of precipitate	:	1.6100E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.3282E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	5.8800E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2122E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00
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Tc-99 Concentration 2.5730E-06 +/- 12 % uCi/ ml

Data	entered	by	KLW	12/05/90
Data	checked	by	pla	<u> </u>

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SAIC - Tc-99 Analysis Program Version 1.00

		- 1
Sample type	:	spike 6 TC/HC
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4400E+01 mg
Weight of filter+precipitate	:	5.5700E+01 mg
Weight of precipitate	:	2.1300E+01 mcJ
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.6950E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	6.8500E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.0598E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 2.5263E-06 +/- 10 % uCi/ ml

Data	entered	by	KLW	12/05/90
Data	checked	by	K	12.7.90

SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Spike /
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.3800E+01 mg
Weight of filter+precipitate	:	5.4000E+01 mg
Weight of precipitate		2.0200E+01 mg
Carrier concentration		2.1970E+01 mg/ml
Carrier volume		1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Vield	:	9,1944E-01
Background counts	:	1.2500E+02
Background count time		5.0000E+01 min
Cross counts	•	1 3080E+03
Gross count time	:	5 0000E+01 min
Efficiency		2.1244E-01
Efficiency	•	2.12446-01
Impurities	:	0.0000E+00
impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 5.4563E-05 +/- 6 % uCi/ ml

Data en	tered by	KLW	12/0	7/90
Data ch	ecked by	, M	12.	7-90
9713515.2013

SAIC - Tc-99 Analysis Program Version 1.00

		-1-1-111
Sample type	:	spike 8 10/HC
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4500E+01 mg
Weight of filter+precipitate	:	5.1400E+01 mg
Weight of precipitate	:	1.6900E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.6923E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	5.9600E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1880E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 2.5211E-06 +/- 11 % uCi/ ml

Initials Date

Data	entered	by	KLW	12/05/90
Data	checked	by	K	13.7.90

9713515.2014

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SAIC - Tc-99 Analysis Program Version 1.00

Sample type	:	Spike 9	
Total sample volume/wei	ight :	1.0000E+01	ml
Sample volume/weight us	sed :	1.0000E+01	ml
Counter used	:	Tennelec #	2
Reference Date	:	12/04/90	
Sample Counting Date	:	12/04/90	
Chemistry Completion Da	ate :	12/04/90	
Weight of filter	:	3.4100E+01	mg
Weight of filter+precip	pitate :	5.3900E+01	mg
Weight of precipitate	:	1.9800E+01	mg
Carrier concentration	:	2.1970E+01	mg/ml
Carrier volume	:	1.0000E+00	ml
Carrier weight	:	2.1970E+01	mg
Yield	:	9.0123E-01	
Background counts	:	1.1500E+02	
Background count time	:	5.0000E+01	min
Gross counts	:	1.3030E+03	
Gross count time	:	5.0000E+01	min
Efficiency	•	2.1330E-01	
Impurities	:	0.0000E+00	
Impurities uncertainty	:	0.0000E+00	
Tc-99 Concentration	5.5677E-06	+/- 6 %	uCi/ ml

Initials Date

Data entered by FM 12/07/90 12/-90 Data checked by

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SAIC	not in the	Sampl	171 11173	
# Customer ID	Receipt Date Customer.	(a) 4125/20 Alacial	All 10.17759	
19762 UN 1500906	21 10/19/190 WD H.	4/25/m Special	Japa 10.53779	
19764 UZB00919	XP 10/13/70 LU.H.	\$/8/20 April	Allin 10 6103 g	
19765 UBBOD960	10 10/19/90 CD.H.	5/8/90 Aporial	Alia 11. 1043 g	
197.66 H& BODASO UN B00950	re lovingen W.H.	Alesio April.	11.08489	
" 19767 HABOOAL "40 UNB00951	Ar 10/19/90 W.H.	4125190 adpress	Added 10 5585 g	
" 19768 41 BOOBBI	61 10/17/90 W.H.	5/21/90 speciel	-28. 8. es 19	
" 19769 Uz BOOB36	AR 10/19/90 W. H.	5/21/90 Aprend	Alla 9.1351 g	
" 19770 UL BOOBAS	de 10/19/90 W.H.I	5/21/80 Anonal	Jole 8.98429	17
19771. Ouplicate aner 19770	ar 10/10/70 W.H.	toport	40P,10 0. 254/2 B	changed deplicate pin "
" 19772 U# BOOKAB	H an oriellit . 34	5/21/20 - Spread	idelial in prozag	H H H
" 19773 UI ROOBA4	20 h/10/20 W.H.	5/21/90 specal	dolid 8.5950 g	13 X
* 19774 4# Bon B 89	AS 10/119/90 W.H	5/25/90 Alectal	, be a 8.38583	77 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -
19775 UN BOO9V2	ar 10, 19,00 W.H.	5/7/20 Apparial	-000 9.6225g	n
19776 4+ BOOM+ 1490 - 10 BOO9VI	AR 10/19/90 W.H.	5/7/90 1 storal	Add BAB369	7
19777 U1500 9V0	2 10/19/90 W.H.	5/7/30 Spaced	8.9111 5	31
19779 4£ 1300978	de 10/19/90	5/7/po theal	8. B6 89 g	ана на
	1 - B (1-) (1			

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	SAIL H	Customer I.D.	INTRO	cont ate a	is tomer	Lampe	e Type	Sub Type	167 /427.	Comments	
1	197 80	UE BOOPT7	4	10/19/90 We	ting have the for	(1.H) =17/20	freed	- shill	8.9615 9	5	1
7	19781	Duplicate 1970013 000971	28-	10/19/90	W.#	420 0 0 124 190 m	no friend	Jolif	8.100 0g 2 240	Changed dyplic	* Afre
5	197 82	U+ B00B83	H	10/19/90	w.H	5/21/00	Affectial .	ALD	8.4800g		
	197 83	U1 1300 1381	TR.	10/19/90	w.H.	5/ 14/90	April	soli	8.2857g		
	197 84	U# 13001382	11	10/19/95	w.H.	5/14/80	Apaced	sdið .	9.22269		1
. 11	19785	U4 1300 1893	20	10/19/00	W.H.	5/25/100	special	Solid	8.9369		11
17	19786	U# 13001392	XA	10/10/02	W.H.	5,25,00	special	sa).	Bistaby		13
14	19787	U# 1300 1391	XO	10/10/00	W.H.	5/25/90	April	Solid	8 3309 9		
15	197 88	UL BOOB90	de	0/19/90	W.H.	3/25/20	Aperent	Sold	8 0832g		. 11
- 14 19	19789	4 Bax. J2.	-20	00,19,00	W.H.	6/19/90	Aprecial	Sola	5 89829		
к ! л	19790	U+ B00535	10	0/19/10	W.H.	6/19/19	Special	Solit	4.57759		7
71	19791	Suplicate BBC BOOCU 2.	78	10/19/20	W.H.	6/ 9/90	Apresel	Sol.	5. 59 52 3	changed degelinate the	fore
4 7	19792	UA BOOCJO	1	in jin an	W.H.	6/19/90	April	Solia	5.6310 9	usance are	8
1 7	19793	U# BOOCJ3	11	11:10	US.H.	6/19/20	Accid	Sond	3.83729		27
,	19794	UN BOACT 1	Jo	10/19/90	W.H.	6/ 19/90	Speciel	Solid	5.0825 q		
	197 95	UI BOOCT 6	Kr	10/10/90	W.H	6/18/90	Special	She	5.0794 g		- 8-
1	19796	64 BODCHS	60	10/10/90	W.H.	6/10/90	Assail	Solid	7.20304		
F.				I I I	1.1.1.						Low: Did

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SAIC		-			- Samp	ē		1	Comments	-
# 9 51	UN BOOEJB	Ka 10	vip 90	Customer Herbird (2)	D. 4/19/09.	frand -		3.7803 9		1
19798	U# BOOCHO	KR	10/10/100	W.H.	E/19/90	South .	delia	6.99269		Ė
197 99	U# B00059	de	10/19/20	cu.H.	6/19/90	Speak _	Aplia	4.86759	· • • • • • • • • • • • • • • • • • • •	-
198 00	U# BOOKH7	00	10/19/90	W.W	6/19/90	descal	toled	6 1903g		1
19801 2	Suplicate 19900 Booths 18	0994 74	119/90	W.H.	Vya C/ 9700	Special	- delia	6-1900 B 64 13	6 George in sun i	44 .
" 198 oz	U# Boors 1	11	10/10/00	W.H.	6/19/90	Dates	. Sola	4.3071g		
" 19803	U# 13009 24	No	10/10/00	w.H.	1/20190	Ipacine .	Ada	10,2811 9		13
19804	U# 300996	X4	10/10/00	w.H.	- 1/20/90	depende.	- Solut	10.1914 9		8
198 05	U# B009Q3	18	\$/19/10	With.	A,120/20	Append	. Ale	10.34 ABg		17
19806	U# 1300905	the	09 01 01	W.M.	n/20/90	Appaint	filed	6.4018g		
19807	U# 13009TI	do	0/19/90	W.H.	4,26/90	elpenal	tobe	10.33203		71
n 198'08	U# 13009T2	J.C	10/19/90	W.H.	4126490	Parie O	Andia	10.4443g		20
n 198 09	U# 1300973	H	10/19/20	W.H.	5/3/90	April.	- Joled	9.52719		-
" 198.10	U# B00974	dr	0)19/20	, <i>w.H</i> .	5/3/90	Special.	Add	9.58989		
198.11	Suplicate 1900 800000	000950 AP	10/19/9	5 WH.		En Janoal	. Solid	teres up n	. Briting in service	10
19812	U# 1200976	de	10/19/00	CO.H.	5/3/00	sprend	. dolia			1
19813	U# B009T5	te.	10/19/90	with	5/3/90	Apresial	Jolia	8.8775g		

SAIR				ple	1	1.1.1.1.	- Comme	ts	
1 19814 UN BOOB 78	KR 10/19/90	West where Hantan (0 P)	5/19/90	-	John	8.17346 9	THIT .		ŀ
19815 UH RODET9	20 10/ 9/20	40.1.	5/14/90	thead .	des .	8.80229			į
198 16 U# B 00 BJ8	AR 10/19/90	WH.	5/21/90	Speciel	sel	10 - 50 19 14	to and gran		ŀ
19817 11# BOOB17	11 10/19/90	W. H.	5/21/90	Special .	sold	10.5046g			ŀ
19818 U# B00616	He 10/19/90	WH.	5/21/20	Special	Stell .	8.838ea			ŀ
" 198 19 U# BOO BJ ?	11. 10/10/00	W.H.	5/21/20	special	Social	9.49.20 9			1
" 19820 Qualicat " 10000 (#800815	12 10/10/90	W.H.	5/21/20	Special	Silie	9.87824			13
" 19821 Duplicate U# BOOBJ 5	11 1/10/00	W.H	5/51/20	Traced	Sie	9.87028			10
" 198 22 U# BOOBKO	He 13/19/90	W.H.	5/25/00	Speciel	Social	4. 4. poy a			0
" 198 23 U#BOOBH4	de 10/119/00	WH.	5/14/90	Speciel	Jolit	11.05409			-
" 19824 U#BMBH5	te nilion	w.M.	5/14/90	Speciel	Siel	11.3118 9			
" 19825 U# BODEH6	11 inplayou	W.N	5/14/20	Special	seix	10 22819			
» 19826 U# Boot H7	se phispos	WH.	5/14/90	JAREAL .	solid	10.50879			1
x 19827 U#B NOBHB	the myigian	W.H.	5/14/90	speciel	Bali	. 10. 81829			,,
N 19828 4# BOOBF4	the mism	W.H	5/7/90	Speciel	solis	9.9025 8			-
» 19829 U# BoobF3	11 10/10/00	W. H.	5/7/90	Special	solid	10.28439			
198 30 1/# Brook F.2	KR MILLAD	W. H.	3/7/90	Jacciel	Solut	8.99319		13	
n 198 30 U# Bros F2	AR 41/11/90	DV. 4.	3/7/90	Accel	3run	B.97319			1

97 135 15.20 19

WORK ORDER/INVOICE AUTHORIZATION

HANFORD	Project No.:	1-139-05-656
19768-19815	P. O. No.:	MPB-SVV-069146
10/19/90	Date Results Due	12/03/90
LAURENT RICKS	Log Date:	10/19/90
Description	Unit Price	Total
Tc-99		\$
		\$
		\$
		\$
		\$
		\$
		\$
		\$
		\$
		\$
	Basic value	\$
	Shipping charges (if any)	\$
	Surcharges/late penalties	\$
	Total amount due this invoice	\$
	HANFORD 19768-19815 10/19/90 LAURENT RICKS Description Tc-99	HANFORD Project No.: 19768-19815 P. O. No.: 10/19/90 Date Results Due LAURENT RICKS Log Date: Description Unit Price Tc-99 Image: Comparison of the second seco

Check (\checkmark) at left if item subcontracted to another lab

Comments:

Sample Delivery Group No. B00887

Subcontractor (if any):

Date sent out:

Date received:

Date due back:

Total cost:\$ (items checked)