WSCF00014-WSCF

WSCF
ANALYTICAL LABORATORY REPORT

for

PROJECT HANFORD MANAGEMENT CONTRACTORS
RICHLAND WA 99352

Attention: CHRIS KOERNER

OCT 1997
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Report#: 97001552
Report Date: 9-oct-1997
W004
PROJECT HANFORD MANAGEMENT CONTRACTORS

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WSCF
ANALYTICAL LABORATORY REPORT

Attention: CHRIS KOERNER **Group #:** 97001552
Project Number MISC. :PROJ. HANFORD MNGMT. CONT.

Sample #	Client ID	Test Performed	Matrix	Method	RQ	Result	Units	MDL	Sampled	Received
W970003711	B0M018	TCLP Extraction	SOLID	EPA 1311		10/03/97		0.00	09/29/97	09/29/97
W970003711	B0M018	pH Soil and Waste Measurement	SOLID	EPA 150.1		12.4	pH	1.00e-002	09/29/97	09/29/97
W970003711	B0M018	Ce-144 Rel.% Count Error (GEA)	SOLID	LA-508-462		312.	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Ce-144 by GEA	SOLID	LA-508-462	U	9.77e-02	pCi/g	0.28	09/29/97	09/29/97
W970003711	B0M018	CePr-144 Rel.% Count Error	SOLID	LA-508-462		312.	%	0.00	09/29/97	09/29/97
W970003711	B0M018	CePr-144 by GEA	SOLID	LA-508-462	U	1.96e-01	pCi/g	0.57	09/29/97	09/29/97
W970003711	B0M018	Co-60 Rel.% Count Error (GEA)	SOLID	LA-508-462		29.5	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Co-60 by GEA	SOLID	LA-508-462		5.20e-02	pCi/g	2.59e-002	09/29/97	09/29/97
W970003711	B0M018	Cs-134 Rel.% Count Error (GEA)	SOLID	LA-508-462		43.8	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Cs-134 by GEA	SOLID	LA-508-462		4.88e-02	pCi/g	3.68e-002	09/29/97	09/29/97
W970003711	B0M018	Cs-137 Rel.% Count Error (GEA)	SOLID	LA-508-462		89.2	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Cs-137 by GEA	SOLID	LA-508-462	U	2.46e-02	pCi/g	3.09e-002	09/29/97	09/29/97
W970003711	B0M018	Eu-152 Rel.% Count Error (GEA)	SOLID	LA-508-462		30.1	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Eu-152 by GEA	SOLID	LA-508-462		2.81e-01	pCi/g	7.72e-002	09/29/97	09/29/97
W970003711	B0M018	Eu-154 Rel.% Count Error (GEA)	SOLID	LA-508-462		356.	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Eu-154 by GEA	SOLID	LA-508-462	U	-1.29e-02	pCi/g	7.81e-002	09/29/97	09/29/97
W970003711	B0M018	Eu-155 Rel.% Count Error (GEA)	SOLID	LA-508-462		27.7	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Eu-155 by GEA	SOLID	LA-508-462		7.03e-01	pCi/g	0.17	09/29/97	09/29/97
W970003711	B0M018	Nb-94 Rel.% Count Error (GEA)	SOLID	LA-508-462		238.	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Nb-94 by GEA	SOLID	LA-508-462	U	-7.42e-03	pCi/g	2.90e-002	09/29/97	09/29/97
W970003711	B0M018	Ru-103 Rel.% Count Error (GEA)	SOLID	LA-508-462		91.6	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Ru-103 by GEA	SOLID	LA-508-462	U	1.73e-02	pCi/g	2.71e-002	09/29/97	09/29/97
W970003711	B0M018	Ru-106 Rel.% Count Error (GEA)	SOLID	LA-508-462		151.	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Ru-106 by GEA	SOLID	LA-508-462	U	1.01e-01	pCi/g	0.26	09/29/97	09/29/97
W970003711	B0M018	Sb-125 Rel.% Count Error (GEA)	SOLID	LA-508-462		98.1	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Sb-125 by GEA	SOLID	LA-508-462	U	-5.10e-02	pCi/g	6.78e-002	09/29/97	09/29/97

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W004
PROJECT HANFORD MANAGEMENT CONTRACTORS

WSCF
ANALYTICAL LABORATORY REPORT

Attention: CHRIS KOERNER **Group #:** 97001552
Project Number MISC. :PROJ. HANFORD MNGMT. CONT.

Sample #	Client ID	Test Performed	Matrix	Method	RQ	Result	Units	MDL	Sampled	Received
W970003711	B0M018	Sn-113 Rel.% Count Error (GEA)	SOLID	LA-508-462		362.	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Sn-113 by GEA	SOLID	LA-508-462	U	-6.19e-03	pCi/g	3.20e-002	09/29/97	09/29/97
W970003711	B0M018	Zn-65 Rel.% Count Error (GEA)	SOLID	LA-508-462		271.	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Zn-65 by GEA	SOLID	LA-508-462	U	-1.53e-02	pCi/g	5.71e-002	09/29/97	09/29/97
W970003711	B0M018	Gross Beta	SOLID	LA-508-410		4.0E+02	pCi/g	3.00	09/29/97	09/29/97
W970003711	B0M016	Gross Beta % Method Error	SOLID	LA-508-410		10	%	0.00	09/29/97	09/29/97
W970003711	B0M018	Total Alpha	SOLID	LA-508-410		4.3E+02	pCi/g	4.00	09/29/97	09/29/97
W970003711	B0M018	Total Alpha % Method Error	SOLID	LA-508-410		11	%	0.00	09/29/97	09/29/97
W970003712	B0M019	TCLP Extraction	SOLID	EPA 1311		10/03/97		0.00	09/29/97	09/29/97
W970003712	B0M019	pH Soil and Waste Measurement	SOLID	EPA 150.1		12.4	pH	1.00e-002	09/29/97	09/29/97
W970003712	B0M019	Ce-144 Rel.% Count Error (GEA)	SOLID	LA-508-462		148.	%	0.00	09/29/97	09/29/97
W970003712	B0M019	Ce-144 by GEA	SOLID	LA-508-462	U	-4.01e-02	pCi/g	9.81e-002	09/29/97	09/29/97
W970003712	B0M019	CePr-144 Rel.% Count Error	SOLID	LA-508-462		148.	%	0.00	09/29/97	09/29/97
W970003712	B0M019	CePr-144 by GEA	SOLID	LA-508-462	U	-8.03e-02	pCi/g	0.20	09/29/97	09/29/97
W970003712	B0M019	Co-60 Rel.% Count Error (GEA)	SOLID	LA-508-462		278.	%	0.00	09/29/97	09/29/97
W970003712	B0M019	Co-60 by GEA	SOLID	LA-508-462	U	-4.67e-03	pCi/g	2.18e-002	09/29/97	09/29/97
W970003712	B0M019	Cs-134 Rel.% Count Error (GEA)	SOLID	LA-508-462		91.7	%	0.00	09/29/97	09/29/97
W970003712	B0M019	Cs-134 by GEA	SOLID	LA-508-462	U	1.48e-02	pCi/g	2.39e-002	09/29/97	09/29/97
W970003712	B0M019	Cs-137 Rel.% Count Error (GEA)	SOLID	LA-508-462		157.	%	0.00	09/29/97	09/29/97
W970003712	B0M019	Cs-137 by GEA	SOLID	LA-508-462	U	-7.60e-03	pCi/g	1.99e-002	09/29/97	09/29/97
W970003712	B0M019	Eu-152 Rel.% Count Error (GEA)	SOLID	LA-508-462		278.	%	0.00	09/29/97	09/29/97
W970003712	B0M019	Eu-152 by GEA	SOLID	LA-508-462	U	-1.03e-02	pCi/g	4.56e-002	09/29/97	09/29/97
W970003712	B0M019	Eu-154 Rel.% Count Error (GEA)	SOLID	LA-508-462		211.	%	0.00	09/29/97	09/29/97
W970003712	B0M019	Eu-154 by GEA	SOLID	LA-508-462	U	-1.89e-02	pCi/g	6.67e-002	09/29/97	09/29/97
W970003712	B0M019	Eu-155 Rel.% Count Error (GEA)	SOLID	LA-508-462		43.9	%	0.00	09/29/97	09/29/97
W970003712	B0M019	Eu-155 by GEA	SOLID	LA-508-462		1.37e-01	pCi/g	5.71e-002	09/29/97	09/29/97

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ANALYTICAL LABORATORY REPORT

Attention: CHRIS KOERNER **Group #:** 97001552
Project Number MISC. :PROJ. HANFORD MNGMT. CONT.

Sample #	Client ID	Test Performed	Matrix	Method	RQ		Result	Units	MDL	Sampled	Received
W970003712	BOM019	Nb-94 Rel.% Count Error (GEA)	SOLID	LA-508-462			532.	%	0.00	09/29/97	09/29/97
W970003712	BOM019	Nb-94 by GEA	SOLID	LA-508-462	U		-2.00e-03	pCi/g	1.82e-002	09/29/97	09/29/97
W970003712	BOM019	Ru-103 Rel.% Count Error (GEA)	SOLID	LA-508-462			159.	%	0.00	09/29/97	09/29/97
W970003712	BOM019	Ru-103 by GEA	SOLID	LA-508-462	U		5.91e-03	pCi/g	1.66e-002	09/29/97	09/29/97
W970003712	BOM019	Ru-106 Rel.% Count Error (GEA)	SOLID	LA-508-462			173.	%	0.00	09/29/97	09/29/97
W970003712	BOM019	Ru-106 by GEA	SOLID	LA-508-462	U		-5.84e-02	pCi/g	0.17	09/29/97	09/29/97
W970003712	BOM019	Sb-125 Rel.% Count Error (GEA)	SOLID	LA-508-462			199.	%	0.00	09/29/97	09/29/97
W970003712	BOM019	Sb-125 by GEA	SOLID	LA-508-462	U		-1.31e-02	pCi/g	4.31e-002	09/29/97	09/29/97
W970003712	BOM019	Sn-113 Rel.% Count Error (GEA)	SOLID	LA-508-462			161.	%	0.00	09/29/97	09/29/97
W970003712	BOM019	Sn-113 by GEA	SOLID	LA-508-462	U		-7.43e-03	pCi/g	1.98e-002	09/29/97	09/29/97
W970003712	BOM019	Zn-65 Rel.% Count Error (GEA)	SOLID	LA-508-462			177.	%	0.00	09/29/97	09/29/97
W970003712	BOM019	Zn-65 by GEA	SOLID	LA-508-462	U		-1.77e-02	pCi/g	4.37e-002	09/29/97	09/29/97
W970003712	BOM019	Gross Beta	SOLID	LA-508-410			2.9E+02	pCi/g	2.60	09/29/97	09/29/97
W970003712	BOM019	Gross Beta % Method Error	SOLID	LA-508-410			10	%	0.00	09/29/97	09/29/97
W970003712	BOM019	Total Alpha	SOLID	LA-508-410			2.9E+02	pCi/g	3.60	09/29/97	09/29/97
W970003712	BOM019	Total Alpha % Method Error	SOLID	LA-508-410			11	%	0.00	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Mercury by ICP-MS	WATER	EPA 200.8	BJ		0.0015	ug/mL	1.20e-003	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Arsenic TCLP BY ICP	WATER	EPA 6010A	U	<	0.070	ug/mL	7.00e-002	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Barium TCLP BY ICP	WATER	EPA 6010A			0.237	ug/mL	5.00e-003	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Cadmium TCLP BY ICP	WATER	EPA 6010A	U	<	0.006	ug/mL	6.00e-003	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Chromium TCLP BY ICP	WATER	EPA 6010A			0.087	ug/mL	6.00e-003	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Lead TCLP BY ICP	WATER	EPA 6010A	U	<	0.040	ug/mL	4.00e-002	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Selenium TCLP BY ICP	WATER	EPA 6010A	U	<	0.112	ug/mL	0.11	09/29/97	09/29/97
W970003713	BOM018 EXTRACT	Silver TCLP BY ICP	WATER	EPA 6010A	U	<	0.005	ug/mL	5.00e-003	09/29/97	09/29/97
W970003714	BOM019 EXTRACT	Mercury by ICP-MS	WATER	EPA 200.8	BJ		0.0012	ug/mL	1.20e-003	09/29/97	09/29/97
W970003714	BOM019 EXTRACT	Arsenic TCLP BY ICP	WATER	EPA 6010A	U	<	0.070	ug/mL	7.00e-002	09/29/97	09/29/97

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W004

WSCF
ANALYTICAL LABORATORY REPORT

Attention: CHRIS KOERNER **Group #:** 97001552
Project Number MISC. :PROJ. HANFORD MNGMT. CONT.

Sample #	Client ID	Test Performed	Matrix	Method	RQ		Result	Units	MDL	Sampled	Received
W970003714	B0M019 EXTRACT	Barium TCLP BY ICP	WATER	EPA 6010A			0.458	ug/mL	5.00e-003	09/29/97	09/29/97
W970003714	B0M019 EXTRACT	Cadmium TCLP BY ICP	WATER	EPA 6010A	U	<	0.006	ug/mL	6.00e-003	09/29/97	09/29/97
W970003714	B0M019 EXTRACT	Chromium TCLP BY ICP	WATER	EPA 6010A	U	<	0.006	ug/mL	6.00e-003	09/29/97	09/29/97
W970003714	B0M019 EXTRACT	Lead TCLP BY ICP	WATER	EPA 6010A	U	<	0.040	ug/mL	4.00e-002	09/29/97	09/29/97
W970003714	B0M019 EXTRACT	Selenium TCLP BY ICP	WATER	EPA 6010A	U	<	0.112	ug/mL	0.11	09/29/97	09/29/97
W970003714	B0M019 EXTRACT	Silver TCLP BY ICP	WATER	EPA 6010A	U	<	0.005	ug/mL	5.00e-003	09/29/97	09/29/97

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W004

WSCF
ANALYTICAL COMMENT REPORT

Attention: CHRIS KOERNER
Project Number MISC.

Group #: 97001552

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICPMS: Hg found in blank equivalent to 0.0012 ug/mL. High ICV recovery for Hg (114%). GEA results of samples in the group 97001552: The samples were found to contain U-238, U-235, Ra-226, Ra-228 and their daughter nuclides. The activity results that are listed here for these nuclides are based on the assumption of secular equilibrium established between parent and daughters. The results are as follows: W970003711: U-238: 2.1E+02 pCi/g +/- 9%, U-235: 1.4E+01 pCi/g +/- 7% Ra-226: 4.1E-01 +/- 15% Ra-228: 5.0E-01 +/- 21% W970003712: U-238: 3.5 pCi/g +/- 15% U-235: 2.1E-01 pCi/g +/- 18% Ra-226: 5.0E-01 pCi/g +/- 11% Ra-228: 4.7E-01 +/- 20% These are all estimate values.
W970003711	B0M018	TESTDATA	pH Soil and Waste Measurement	DUPLICATE ANALYSIS FOR QC: 12.4.

Lab Areas: VALGROUP - Group Validation; VALTEST - Test Validation; TESTDATA - Test Data Entry; LOGSAMP - Login for Sample; LOGTEST - Login for Tests

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: CHRIS KOERNER
Project Number MISC. :PROJ. HANFORD MNGMT. CONT.

Group #: 97001552

Sample #	Client ID	Test Name	Peak Name	RQ	Result	Units
W970003711	B0M018	Gamma Energy Analysis-general	AC-228		4.075e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	AC-228 Count Error		19.598	%
W970003711	B0M018	Gamma Energy Analysis-general	BI-214		4.393e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	BI-214 Count Error		16.142	%
W970003711	B0M018	Gamma Energy Analysis-general	CE-141		1.066e+00	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	CE-141 Count Error		13.236	%
W970003711	B0M018	Gamma Energy Analysis-general	CO-57		1.023e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	CO-57 Count Error		29.228	%
W970003711	B0M018	Gamma Energy Analysis-general	K-40		9.655e+00	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	K-40 Count Error		12.543	%
W970003711	B0M018	Gamma Energy Analysis-general	NP-239		1.110e+00	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	NP-239 Count Error		27.685	%
W970003711	B0M018	Gamma Energy Analysis-general	NP-239A		6.750e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	NP-239A Count Error		27.689	%
W970003711	B0M018	Gamma Energy Analysis-general	PA-234M		3.989e+02	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	PA-234M Count Error		13.755	%
W970003711	B0M018	Gamma Energy Analysis-general	PB-212		5.178e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	PB-212 Count Error		16.277	%
W970003711	B0M018	Gamma Energy Analysis-general	PB-214		4.246e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	PB-214 Count Error		15.436	%
W970003711	B0M018	Gamma Energy Analysis-general	RA-224		1.421e+00	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	RA-224 Count Error		35.384	%
W970003711	B0M018	Gamma Energy Analysis-general	RA-226		4.082e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	RA-226 Count Error		13.158	%
W970003711	B0M018	Gamma Energy Analysis-general	RA-228		5.006e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	RA-228 Count Error		20.995	%
W970003711	B0M018	Gamma Energy Analysis-general	SR-85		8.004e-02	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	SR-85 Count Error		25.162	%

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TENTATIVELY IDENTIFIED PEAK REPORT

Attention: CHRIS KOERNER **Group #:** 97001552
Project Number MISC. :PROJ. HANFORD MNGMT. CONT.

Sample #	Client ID	Test Name	Peak Name	RQ	Result	Units
W970003711	B0M018	Gamma Energy Analysis-general	TH-234		2.038e+02	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	TH-234 Count Error		9.289	%
W970003711	B0M018	Gamma Energy Analysis-general	TL-208		1.675e-01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	TL-208 Count Error		24.209	%
W970003711	B0M018	Gamma Energy Analysis-general	U-235		1.419e+01	pCi/g
W970003711	B0M018	Gamma Energy Analysis-general	U-235 Count Error		6.691	%
W970003712	B0M019	Gamma Energy Analysis-general	AC-228		4.552e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	AC-228 Count Error		16.819	%
W970003712	B0M019	Gamma Energy Analysis-general	AM-243		1.322e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	AM-243 Count Error		27.231	%
W970003712	B0M019	Gamma Energy Analysis-general	BI-214		5.046e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	BI-214 Count Error		12.618	%
W970003712	B0M019	Gamma Energy Analysis-general	CD-109		1.116e+00	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	CD-109 Count Error		42.177	%
W970003712	B0M019	Gamma Energy Analysis-general	K-40		1.294e+01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	K-40 Count Error		12.202	%
W970003712	B0M019	Gamma Energy Analysis-general	NP-237		3.348e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	NP-237 Count Error		42.174	%
W970003712	B0M019	Gamma Energy Analysis-general	PB-212		5.124e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	PB-212 Count Error		11.470	%
W970003712	B0M019	Gamma Energy Analysis-general	PB-214		5.789e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	PB-214 Count Error		11.109	%
W970003712	B0M019	Gamma Energy Analysis-general	RA-224		1.551e+00	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	RA-224 Count Error		24.230	%
W970003712	B0M019	Gamma Energy Analysis-general	RA-226		5.004e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	RA-226 Count Error		10.224	%
W970003712	B0M019	Gamma Energy Analysis-general	RA-228		4.677e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	RA-228 Count Error		19.495	%

RQ=Result Qualifier

B - The analyte was detected in the associated method blank.
J - Estimated value.
N - Identification is based on a mass spectral library search.
U - The analyte was analyzed for but not detected.

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: CHRIS KOERNER **Group #:** 97001552
Project Number MISC. :PROJ. HANFORD MNGMT. CONT.

Sample #	Client ID	Test Name	Peak Name	RQ	Result	Units
W970003712	B0M019	Gamma Energy Analysis-general	SR-85		4.471e-02	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	SR-85 Count Error		28.853	%
W970003712	B0M019	Gamma Energy Analysis-general	TH-234		3.455e+00	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	TH-234 Count Error		14.666	%
W970003712	B0M019	Gamma Energy Analysis-general	TL-208		1.235e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	TL-208 Count Error		20.777	%
W970003712	B0M019	Gamma Energy Analysis-general	U-235		2.066e-01	pCi/g
W970003712	B0M019	Gamma Energy Analysis-general	U-235 Count Error		17.677	%

RQ=Result Qualifier

B - The analyte was detected in the associated method blank.
N - Identification is based on a mass spectral library search.
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U - The analyte was analyzed for but not detected.