Quality Assurance

Table Q-1. Severn Trent Laboratories (STL), Inc., Richland, WA, Performance Data on Surface Environmental Surveillance Project Blind Spikes, 2002

Media	Con Short Name	True Value	Units	Reported Value	Units	Reported/True	%Bias
Water	TRITIUM	2447	pCi/L	2280	pCi/L	0.93	-7
Water	CS-137	841	pCi/L	805	pCi/L	0.96	-4.3
Water	CS-134	428	pCi/L	305	pCi/L	0.71	-28.7
Water	CO-60	360	pCi/L	407	pCi/L	1.13	13.1
Water	PU-238	18.8	pCi/L	19.9	pCi/L	1.06	5.9
Water	PU-239/240	20.3	pCi/L	21.7	pCi/L	1.07	0.0
Water	TRITIUM	4628	pCi/L	4140	pCi/L	0.89	-10.5
Water	CS-137	1126	pCi/L	1150	pCi/L	1.02	2.1
Water	CO-60	208	pCi/L	242	pCi/L	1.16	16.3
Water	PU-238	66.0	pCi/L	62.9	pCi/L	0.95	-4.70
Water	PU-239/240	44.6	pCi/L	44.9	pCi/L	1.01	0.7
Vegetation	CS-137	15.29	pCi/g	19.2	pCi/g	1.26	26
Vegetation	SR-90	35.0	pCi/g	38.4	pCi/g	1.10	9.9
Vegetation	CO-60	0.500	pCi/g	0.593	pCi/g	1.19	18.6
Vegetation	K-40	30.5	pCi/g	35.8	pCi/g	1.17	17
Vegetation	PU-239/240	0.1479	pCi/g	0.159	pCi/g	1.08	7.5
Vegetation	CS-137	4.44	pCi/g	5.11	pCi/g	1.15	15
Vegetation	SR-90	8.73	pCi/g		pCi/g	0.00	-100
Vegetation	CO-60	0.162	pCi/g	0.177	pCi/g	1.09	9
Vegetation	K-40	19.1	pCi/g	22.5	pCi/g	1.18	18
Vegetation	PU-238	0.00303	pCi/g	0.00324	pCi/g	1.07	7
Vegetation	PU-239/240	0.0403	pCi/g	0.0478	pCi/g	1.19	18.6
Soil	CS-137	19.8	pCi/g	24.2	pCi/g	1.22	22
Soil	SR-90	0.85	pCi/g	0.892	pCi/g	1.05	4.9
Soil	CO-60	0.0377	pCi/g	0.0232	pCi/g	0.62	-38
Soil	K-40	8.50	pCi/g	8.88	pCi/g	1.04	4
Soil	PU-238	0.0100	pCi/g	0.0115	pCi/g	1.16	16
Soil	PU-239/240	0.274	pCi/g	0.287	pCi/g	1.05	4.7
Soil	CS-137	8.06	pCi/g	10.2	pCi/g	1.27	27
Soil	SR-90	0.318	pCi/g	0.339	pCi/g	1.07	7
Soil	K-40	8.46	pCi/g	10.5	pCi/g	1.24	24
Soil	PU-239/240	0.14	pCi/g	0.147	pCi/g	1.03	3
Air Filter	CS-137	358	pCi/filter	317	pCi/filter	0.89	-11.5
Air Filter	SR-90	135	pCi/filter	74.6	pCi/filter	0.55	-45
Air Filter	CO-60	332	pCi/filter	290	pCi/filter	0.87	-12.7
Air Filter	CS-134	365	pCi/filter	304	pCi/filter	0.83	-17
Air Filter	PU-238	11	pCi/filter	11.2	pCi/filter	1.02	1.8
Air Filter	SB-125	301	pCi/filter	173	pCi/filter	0.57	-43
Air Filter	CS-137	582	pCi/filter	519	pCi/filter	0.89	-10.8
Air Filter	SR-90	85.8	pCi/filter	92.0	pCi/filter	1.07	7.2
Air Filter	CO-60	281	pCi/filter	264	pCi/filter	0.94	-6.0
Air Filter	CS-134	256	pCi/filter	247	pCi/filter	0.96	-3.5
Air Filter	PU-238	3.60	pCi/filter	3.58	pCi/filter	0.99	-0.6
Air Filter	SB-125	227	pCi/filter	110	pCi/filter	0.48	-52
Air Filter	PU-239/240	3.4	pCi/filter	3.46	pCi/filter	1.02	1.8

Table Q-2. Severn Trent Laboratories (STL) Inc., Richland WA, Performance Data on Environmental Resource Associates (ERA) Proficiency Testing Program Water Samples (pCi/L), 2002

		STL		ERA							
Con Short Name	Study No.	Value[a]	Experimental Deviation[b]	Known Value	Experimental Deviation[b]	Mean Recovery	Number of Participants	Bias%	Performance Evaluation[c]	Report Issue Date	Comments
CO-60	RAD-49	40.1	3.0	39.1	5.0	40.0	45	2.56	Acceptable	7-Jul-02	
CS-134	RAD-49	14.4	0.90	17.1	5.0	16.1	45	-15.79	Acceptable	7-Jul-02	
CS-137	RAD-49	52.3	4.4	52.1	5.0	53.0	45	0.38	Acceptable	7-Jul-02	
GROSS ALPHA	RAD-49	17.5	2.4	22.8	5.7	24.6	28	-23.25	Acceptable	7-Jul-02	
GROSS BETA	RAD-49	176	5.9	189	28	175.0	50	-6.88	Acceptable	7-Jul-02	
I-131	RAD-49	15.7	2.2	14.7	2.0	15.1	37	6.80	Acceptable	7-Jul-02	
RA-226	RAD-49	6.11	0.57	6.07	0.91	6.20	47	0.66	Acceptable	7-Jul-02	
RA-228	RAD-49	5.25	0.33	4.53	1.1	4.57	42	15.89	Acceptable	7-Jul-02	
SR-89	RAD-49	30.6	0.59	31.7	5.0	29.0	31	-3.47	Acceptable	7-Jul-02	
SR-90	RAD-49	27.6	0.10	28.3	5.0	27.7	34	-2.47	Acceptable	7-Jul-02	
TRITIUM	RAD-49	15200	361	17400	1740	16970	56	-12.64	Check for Error	7-Jul-02	
U-TOTAL	RAD-49	8.45	0.31	9.33	3.0	9.05	42	-9.43	Acceptable	7-Jul-02	
Ba-133	RAD-50	70.5	6.2	80	8.0	74.8	41	-11.88	Check for Error	7-Jul-02	
CO-60	RAD-50	22.2	1.4	23.3	5.0	24.5	40	-4.72	Acceptable	7-Jul-02	
CS-134	RAD-50	62.9	6.5	71.7	5.0	67.8	41	-12.27	Not Acceptable	7-Jul-02	Error due to cascade summing.
CS-137	RAD-50	216	5.8	214	10.7	225.0	41	0.93	Acceptable	7-Jul-02	
GROSS ALPHA	RAD-50	41.2	3.9	58.8	14.7	52.6	61	-29.93	Check for Error	7-Jul-02	
GROSS BETA	RAD-50	23.7	1.0	21.9	5.0	24.0	56	8.22	Acceptable	7-Jul-02	
RA-226	RAD-50	4.61	0.4	4.97	0.7	4.7	39	-7.24	Acceptable	7-Jul-02	
RA-228	RAD-50	4.98	0.5	4.69	1.2	4.5	33	6.18	Acceptable	7-Jul-02	
SR-89	RAD-50	25.5	1.9	29	5.0	27.6	23	-12.07	Acceptable	7-Jul-02	
SR-90	RAD-50	35.2	0.5	36.4	5.0	34.1	25	-3.30	Acceptable	7-Jul-02	
U-TOTAL	RAD-50	4.75	0.1	5.03	3.0	5.0	33	-5.57	Acceptable	7-Jul-02	
Zn-65	RAD-50	86	3.7	95.7	9.6	96.9	40	-10.14	Acceptable	7-Jul-02	
CO-60	RAD-51	110	3.00	104	5.2	107.0	30	5.77	Acceptable	23-Jan-03	
CS-134	RAD-51	52.5	5.77	55.5	5.0	51.4	29	-5.41	Acceptable	23-Jan-03	
CS-137	RAD-51	114	8.19	117	5.9	118	30	-2.56	Acceptable	23-Jan-03	
GROSS ALPHA	RAD-51	8.87	0.82	12.2	5.0	11.0	38	-27.30	Acceptable	23-Jan-03	
GROSS ALPHA	RAD-51	91.1	1.47	103	25.8	106.0	38	-11.55	Acceptable	23-Jan-03	
GROSS BETA	RAD-51	48.6	3.8	47	5	45.3	34	3.40	Acceptable	23-Jan-03	
GROSS BETA	RAD-51	271	17.2	330	49.5	288	36	-17.88	Acceptable	23-Jan-03	
I-131	RAD-51	7.22	2.2	6.76	2.0	7.2	23	6.80	Acceptable	23-Jan-03	
RA-226	RAD-51	11.9	0.63	12.1	1.8	12.6	25	-1.65	Acceptable	23-Jan-03	
RA-226	RAD-51	8.48	0.33	9.1	1.4	8.9	32	-6.81	Acceptable	23-Jan-03	
RA-228	RAD-51	14.4	0.46	15.1	3.8	14.1	24	-4.64	Acceptable	23-Jan-03	
RA-228	RAD-51	17.0	0.15	17.8	4.5	15.6	30	-4.49	Acceptable	23-Jan-03	
SR-89	RAD-51	40.6	1.10	47.6	5.0	45.9	23	-14.71	Acceptable	23-Jan-03	
SR-90	RAD-51	7.46	0.38	7.56	5.0	7.7	25	-1.32	Acceptable	23-Jan-03	
TRITIUM	RAD-51	8760	49.3	10200	1020	9710	43	-14.12	Acceptable	23-Jan-03	
U-TOTAL	RAD-51	17.5	0.40	19.2	3.0	17.2	24	-8.85	Acceptable	23-Jan-03	
U-TOTAL	RAD-51	52.9	3.30	61.7	6.2	58.2	30	-14.26	Acceptable	23-Jan-03	

(a) Three results are reported to ERA, this represents the average of the three results ± 1 standard deviation of the mean.
(b) Concentration ± 1 standard deviation.
(c) The Performance Evaluation criteria is:

Acceptable = Reported Value falls within the Control Limits.
Check for Error = Reported Value falls within the Control Limits and outside of the Warning Limits.
Not Acceptable = Reported Value falls outside of the Control Limits.

The Control Limits, Warning Limits, and Outlier Criteria are established per the US-EPA guidelines contained in the National Standards for Water Proficiency Testing Studies Criteria Document, December, 1988.

Table Q-3. Severn Trent Laboratories (STL) Inc., Richland, WA, Performance Data on the DOE Environmental Measurements Laboratory (EML) Quality Assessment Program Studies, 2002

		EML		STL				
Media	Con Short Name	Bq/ Unit[a]	pCi/ Unit[a]	Bq/ Unit[a]	pCi/ Unit[a]	STL/EML	%Bias	Evaluation[b]
Air Filter	AM-241	0.088	2.38E+00	0.088	2.38E+00	1.000	0.00	Acceptable
Air Filter	AM-241	0.191	5.16E+00	0.200	5.41E+00	1.047	4.71	Acceptable
Air Filter	CO-60	30.52	8.25E+02	31.90	8.62E+02	1.045	4.52	Acceptable
Air Filter	CO-60	23.00	6.22E+02	22.9	6.19E+02	0.996	-0.43	Acceptable
Air Filter	CS-137	28.23	7.63E+02	30.60	8.27E+02	1.084	8.40	Acceptable
Air Filter	CS-137	32.50	8.78E+02	32.9	8.89E+02	1.012	1.23	Acceptable
Air Filter	GROSS ALPHA	0.534	1.44E+01	0.567	1.53E+01	1.062	6.18	Acceptable
Air Filter	GROSS ALPHA	0.287	7.76E+00	0.290	7.84E+00	1.010	1.05	Acceptable
Air Filter	GROSS BETA	1.30	3.51E+01	1.33	3.59E+01	1.023	2.31	Acceptable
Air Filter	GROSS BETA	0.871	2.35E+01	0.800	2.16E+01	0.918	-8.15	Acceptable
Air Filter	MN-54	38.53	1.04E+03	41.40	1.12E+03	1.074	7.45	Acceptable
Air Filter	MN-54	52.20	1.41E+03	51.6	1.39E+03	0.989	-1.15	Acceptable
Air Filter	PU-238	0.057	1.54E+00	0.061	1.65E+00	1.070	7.02	Acceptable
Air Filter	PU-238	0.119	3.22E+00	2.470	6.68E+01	20.756	1975.63	Not Acceptable
Air Filter	PU-239	0.187	5.05E+00	0.173	4.68E+00	0.925	-7.49	Acceptable
Air Filter	PU-239	0.206	5.57E+00	5.02	1.36E+02	24.369	2336.89	Not Acceptable
Air Filter	SR-90	4.83	1.31E+02	4.56	1.23E+02	0.944	-5.63	Acceptable
Air Filter	SR-90	5.56	1.50E+02	6.17	1.67E+02	1.110	10.95	Acceptable
Air Filter	U-234	0.228	6.16E+00	0.210	5.68E+00	0.921	-7.89	Acceptable
Air Filter	U-238	0.230	6.22E+00	0.230	6.22E+00	1.000	0.00	Acceptable
Air Filter	U-TOTAL (µg)	24.11	2.41E+01	25.00	2.50E+01	1.037	3.71	Acceptable
Air Filter	U-TOTAL (µg)	18.59	1.86E+01	17.80	1.78E+01	0.958	-4.25	Acceptable
Soil	AC-228	51.167	1.38E+00	56.1	1.52E+00	1.096	9.64	Acceptable
Soil	AC-228	42.3	1.14E+00	52.8	1.43E+00	1.248	24.82	Acceptable with Warning
Soil	AM-241	10.927	2.95E-01	11.5	3.11E-01	1.052	5.24	Acceptable
Soil	AM-241	6.767	1.83E-01	7.05	1.91E-01	1.042	4.18	Acceptable
Soil	BI-214	53.933	1.46E+00	56.2	1.52E+00	1.042	4.20	Acceptable
Soil	BI-214	33.63	9.09E-01	38.4	1.04E+00	1.142	14.18	Acceptable
Soil	CS-137	1326.67	3.59E+01	1516.8	4.10E+01	1.143	14.33	Acceptable
Soil	CS-137	829.33	2.24E+01	989.2	2.67E+01	1.193	19.28	Acceptable with Warning
Soil	K-40	621.7	1.68E+01	690.4	1.87E+01	1.111	11.06	Acceptable
Soil	K-40	637.67	1.72E+01	713.3	1.93E+01	1.119	11.86	Acceptable
Soil	PB-212	51.1	1.38E+00	60.0	1.62E+00	1.174	17.42	Acceptable
Soil	PB-212	43.43	1.17E+00	50.9	1.38E+00	1.172	17.20	Acceptable
Soil	PB-214	54.37	1.47E+00	68.6	1.85E+00	1.262	26.18	Acceptable
Soil	PB-214	35.2	9.51E-01	39.5	1.07E+00	1.122	12.22	Acceptable
Soil	PU-239	12.903	3.49E-01	13.8	3.73E-01	1.070	6.95	Acceptable
Soil	PU-239	19.10	5.16E-01	22.8	6.16E-01	1.194	19.38	Acceptable with Warning
Soil	SR-90	53.76	1.45E+00	54.6	1.48E+00	1.016	1.57	Acceptable
Soil	SR-90	41.16	1.11E+00	42.6	1.15E+00	1.035	3.50	Acceptable
Soil	TH-234	48.4	1.31E+00	55.8	1.51E+00	1.153	15.29	Acceptable
Soil	TH-234	89.3	2.41E+00	216	5.84E+00	2.419	141.88	Not Acceptable
Soil	U-234	42.32	1.14E+00	39.2	1.06E+00	0.926	-7.37	Acceptable
Soil	U-238	44.49	1.20E+00	41.4	1.12E+00	0.931	-6.95	Acceptable
Soil	U-TOTAL (µg)	7.829	7.83E+00	7.08	7.08E+00	0.904	-9.57	Acceptable
Soil	U-TOTAL (µg)	3.61	3.61E+00	3.61	3.61E+00	1.000	0.00	Acceptable
Vegetation	AM-241	2.228	6.02E+01	2.02	5.46E+01	0.907	-9.34	Acceptable
Vegetation	AM-241	2.253	6.09E-02	3.11	8.41E-02	1.380	38.04	Acceptable
Vegetation	CM-244	1.32	3.57E+01	1.42	3.84E+01	1.076	7.58	Acceptable
Vegetation	CM-244	1.247	3.37E-02	1.35	3.65E-02	1.083	8.26	Acceptable
Vegetation	CO-60	9.66	2.61E-01	10.8	2.92E-01	1.118	11.80	Acceptable
Vegetation	CO-60	11.23	3.04E+02	14.8	4.00E+02	1.318	31.79	Acceptable with Warning
Vegetation	CS-137	313.7	8.48E+03	351.9	9.51E+03	1.122	12.19	Acceptable
Vegetation	CS-137	300.67	8.13E+00	359.5	9.72E+00	1.196	19.57	Acceptable with Warning

Table Q-3. Severn Trent Laboratories (STL) Inc., Richland, WA, Performance Data on the DOE Environmental Measurements Laboratory (EML) Quality Assessment Program Studies, 2002

		EML		STL				
Media	Con Short Name	Bq/ Unit[a]	pCi/ Unit[a]	Bq/ Unit[a]	pCi/ Unit[a]	STL/EML	%Bias	Evaluation[b]
Vegetation	K-40	864.33	2.34E+04	940.2	2.54E+04	1.088	8.78	Acceptable
Vegetation	K-40	1480	4.00E+01	1578	4.26E+01	1.066	6.62	Acceptable
Vegetation	PU-239	3.54	9.58E+01	3.42	9.24E+01	0.965	-3.47	Acceptable
Vegetation	PU-239	3.427	9.26E-02	2.92	7.89E-02	0.852	-14.79	Acceptable
Vegetation	SR-90	476.26	1.29E+01	489	1.32E+01	1.027	2.68	Acceptable
Water	AM-241	3.043	8.22E+01	3.11	8.41E+01	1.022	2.20	Acceptable
Water	AM-241	1.474	3.98E+01	1.30	3.51E+01	0.882	-11.80	Acceptable with Warning
Water	CO-60	347.33	9.39E+03	346.6	9.37E+03	0.998	-0.21	Acceptable
Water	CO-60	268.67	7.26E+03	266.6	7.21E+03	0.992	-0.77	Acceptable
Water	CS-134	3.357	9.07E+01	4.43	1.20E+02	1.320	31.96	Not Acceptable
Water	CS-134	60.2	1.63E+03	59.6	1.61E+03	0.990	-1.00	Acceptable
Water	CS-137	56.067	1.52E+03	54.2	1.46E+03	0.967	-3.33	Acceptable
Water	CS-137	81.43	2.20E+03	80.8	2.18E+03	0.992	-0.77	Acceptable
Water	GROSS ALPHA	375	1.01E+04	381.4	1.03E+04	1.017	1.71	Acceptable
Water	GROSS ALPHA	210	5.68E+03	9.59	2.59E+02	0.046	-95.43	Not Acceptable
Water	GROSS BETA	1030	2.78E+04	1041	2.81E+04	1.011	1.07	Acceptable
Water	GROSS BETA	900	2.43E+04	219.3	5.93E+03	0.244	-75.63	Not Acceptable
Water	H-3	283.7	7.67E+03	264.3	7.14E+03	0.932	-6.84	Acceptable
Water	H-3	227.3	6.14E+03	212.3	5.74E+03	0.934	-6.60	Acceptable
Water	Pu-238	0.49	1.32E+01	0.470	1.27E+01	0.959	-4.08	Acceptable
Water	Pu-238	4.331	1.17E+02	4.00	1.08E+02	0.924	-7.64	Acceptable
Water	PU-239	4.219	1.14E+02	4.25	1.15E+02	1.007	0.73	Acceptable
Water	PU-239	2.07	5.59E+01	2.06	5.57E+01	0.995	-0.48	Acceptable
Water	SR-90	7.579	2.05E+02	7.45	2.01E+02	0.983	-1.70	Acceptable
Water	SR-90	8.69	2.35E+02	8.60	2.32E+02	0.990	-1.04	Acceptable
Water	U-234	3.323	8.98E+01	3.33	9.00E+01	1.002	0.21	Acceptable
Water	U-238	3.37	9.11E+01	3.17	8.57E+01	0.941	-5.93	Acceptable
Water	U-TOTAL (µg)	0.273	2.73E-01	0.248	2.48E-01	0.908	-9.16	Acceptable
Water	U-TOTAL (µg)	0.112	1.12E-01	0.095	9.50E-02	0.848	-15.18	Acceptable with Warning

(a) Units: Air filter: Filter
Soil: Kg
Vegetation: Kg
Water: L

(b) The Evaluation criteria is:
Acceptable = Reported Value falls within the Control Limits.
Not Acceptable = Reported Value falls outside of the Control Limits.
Acceptable with Warning = Reported Value falls within the Control Limits and outside of the Warning Limits.

Table Q-4. Biota Sample Field Duplicate Results, 2002

										ASSOCIATED TO VALUE RPTD COLUMN				
OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	VALUE RPTD	Replicate Value	Relative % Difference	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	LAB QUALIFIER
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	BE-7	5.3			pCi/L	29	29	49.5	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	BE-7	-13.6	5.3	-455	pCi/L	24	24	40.7	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	BE-7	-6.69	5.3	-1725	pCi/L	24	24	41.2	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	CO-60	-1.15			pCi/L	3.6	3.6	6.1	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	CO-60	-2.34	-1.15	-68	pCi/L	2.9	2.9	4.74	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	CO-60	2.56	-1.15	526	pCi/L	3.1	3.1	5.92	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	CS-134	-0.638			pCi/L	3.2	3.2	5.43	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	CS-134	-1.05	-0.638	-49	pCi/L	2.9	2.9	4.85	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	CS-134	0.822	-0.638	1587	pCi/L	2.8	2.8	4.99	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	CS-137	-1.31			pCi/L	3.1	3.1	5.16	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	CS-137	1.51	-1.31	2820	pCi/L	2.7	2.7	4.88	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	CS-137	2.18	-1.31	802	pCi/L	2.7	2.7	4.94	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	EU-154	-3.47			pCi/L	10	10	17.7	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	EU-154	-1.92	-3.47	-58	pCi/L	9.3	9.3	16.2	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	EU-154	9.64	-3.47	425	pCi/L	8.8	8.8	16.9	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	EU-155	0.581			pCi/L	7.5	7.5	12.6	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	EU-155	-0.721	0.581	-1860	pCi/L	6.7	6.7	11.5	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	EU-155	0.121	0.581	131	pCi/L	5.8	5.8	10.1	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	K-40	1180			pCi/L	190	190	50.4	
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	K-40	1420	1180	18	pCi/L	200	200	47	
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	K-40	1360	1180	14	pCi/L	190	190	51.1	
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	RU-106	17.3			pCi/L	27	27	48.1	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	RU-106	-6.93	17.3	467	pCi/L	25	25	43.5	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	RU-106	16.8	17.3	3	pCi/L	23	23	42.9	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	SB-125	3.48			pCi/L	7.7	7.7	13.5	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	SB-125	5.26	3.48	41	pCi/L	6.4	6.4	11.5	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	SB-125	2.28	3.48	42	pCi/L	6.5	6.5	11.5	U
SESPMNT	B14JK3	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	SR-90	0.247			pCi/L	0.25	0.29	0.43	U
SESPSPEC	B14JJ2	FRANKLIN FARM B	COW	MILK	9-May-02	SR-90	0.16	0.247	43	pCi/L	0.24	0.29	0.453	U
SESPSPEC	B14JJ3	FRANKLIN FARM A	COW	MILK	9-May-02	SR-90	0.229	0.247	8	pCi/L	0.25	0.29	0.419	U
SESPMNT	B14JK7	SAGEMOOR COMPOSITE	COW	MILK	9-May-02	TRITIUM	43.1			pCi/L		1.8		
SESPSPEC	B14JK9	FRANKLIN FARM A	COW	MILK	9-May-02	TRITIUM	38	43.1	13	pCi/L		1.8		
SESPSPEC	B14JL0	FRANKLIN FARM B	COW	MILK	9-May-02	TRITIUM	47.3	43.1	9	pCi/L		1.8		
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	BE-7	-5.02			pCi/L	23	23	38.8	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	BE-7	-15	-5.02	-100	pCi/L	25	25	41.1	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	BE-7	16	-5.02	383	pCi/L	19	19	34.5	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	CO-60	-0.568			pCi/L	3.5	3.5	6.03	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	CO-60	4.05	-0.568	265	pCi/L	3.5	3.5	6.64	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	CO-60	0.42	-0.568	-1335	pCi/L	2.6	2.6	4.77	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	CS-134	-0.144			pCi/L	3.5	3.5	6.06	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	CS-134	1.76	-0.144	236	pCi/L	3.6	3.6	6.4	U

Table Q-4. Biota Sample Field Duplicate Results, 2002

										ASSOCIATED TO VALUE RPTD COLUMN				
OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	VALUE RPTD	Replicate Value	Relative % Difference	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	LAB QUALIFIER
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	CS-134	-0.726	-0.144	-134	pCi/L	2.9	2.9	4.91	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	CS-137	-2.84			pCi/L	3.2	3.2	5.15	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	CS-137	0.722	-2.84	-336	pCi/L	3.4	3.4	5.81	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	CS-137	-1.13	-2.84	-86	pCi/L	2.7	2.7	4.52	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	EU-154	0.413			pCi/L	11	11	19.1	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	EU-154	-3.38	0.413	-256	pCi/L	11	11	18	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	EU-154	6.68	0.413	177	pCi/L	7.9	7.9	15	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	EU-155	2.52			pCi/L	7.5	7.5	12.7	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	EU-155	2.52	2.52	0	pCi/L	9.2	9.2	15.7	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	EU-155	-1.03	2.52	477	pCi/L	5.8	5.8	9.94	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	K-40	979			pCi/L	170	170	56.1	
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	K-40	1180	979	19	pCi/L	180	180	52.1	
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	K-40	1240	979	24	pCi/L	180	180	42.4	
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	RU-106	-23.6			pCi/L	25	25	40.8	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	RU-106	5.02	-23.6	-308	pCi/L	28	28	49	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	RU-106	-1.04	-23.6	-183	pCi/L	22	22	37.9	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	SB-125	-0.28			pCi/L	7.4	7.4	12.6	U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	SB-125	-0.203	-0.28	-32	pCi/L	8.2	8.2	13.9	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	SB-125	-2.56	-0.28	-161	pCi/L	6.2	6.2	10.4	U
SESPMNT	B15NY3	SAGEMOOR COMPOSITE	COW	MILK	25-Oct-02	SR-90	-0.11773			pCi/L	0.086211	0.3059		U
SESPSPEC	B15NX2	FRANKLIN FARM B	COW	MILK	25-Oct-02	SR-90	-0.0253	-0.11773	-129	pCi/L	0.47	0.47	0.896	U
SESPSPEC	B15NX3	FRANKLIN FARM A	COW	MILK	25-Oct-02	SR-90	-0.13823	-0.11773	-16	pCi/L	0.37389	0.3739		U

Table Q-5. Water Sample Field Duplicate Results, 2002

										ASSOCIATED TO VALUE RPTD COLUMN			
OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP DATE	CON SHORT NAME	VALUE RPTD	Replicate Value	Relative % Difference	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	LAB QUALIFIER
SESPMNT	B147T7	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	SR-90	0.0525			pCi/L	0.026	0.03	0.0412	
SESPSPEC	B147T2	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	SR-90	0.0573	0.0525	8.7	pCi/L	0.029	0.033	0.0461	
SESPMNT	B147T7	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	M	184			pCi/L	5.6	19	6.37	
SESPSPEC	B147T2	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	M	187	184	1.6	pCi/L	5.6	19	6.26	
SESPMNT	B147T7	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	U-234	0.429			pCi/L	0.05	0.093	0.00967	
SESPSPEC	B147T2	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	U-234	0.478	0.429	10.8	pCi/L	0.053	0.1	0.00824	
SESPMNT	B147T7	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	U-235	0.00934			pCi/L	0.0085	0.0089	0.00382	
SESPSPEC	B147T2	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	U-235	0.00687	0.00934	30.5	pCi/L	0.0077	0.0081	0.00395	U
SESPMNT	B147T7	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	U-238	0.373			pCi/L	0.046	0.082	0.011	
SESPSPEC	B147T2	RICH.PMPHS-1 HRM46.4	RIVER	26-Mar-02	U-238	0.385	0.373	3.2	pCi/L	0.048	0.085	0.00395	
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	ALPHA	0.301			pCi/L	1.3	1.3	2.79	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	ALPHA	1.27	0.301	123.4	pCi/L	1.4	1.4	2.13	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	BE-7	4.06			pCi/L	20	20	37.2	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	BE-7	-9.31	4.06	-509.3	pCi/L	19	19	33	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	BETA	16.6			pCi/L	2.5	3.4	3.02	
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	BETA	13.3	16.6	22.1	pCi/L	2.3	3	2.97	
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	CO-60	-0.792			pCi/L	2.7	2.7	4.96	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	CO-60	0.788	-0.792	-79000.0	pCi/L	2.1	2.1	4.55	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	CS-134	-1.14			pCi/L	3	3	5.13	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	CS-134	-1.39	-1.14	-19.8	pCi/L	2.5	2.5	4.37	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	CS-137	0.491			pCi/L	2.4	2.4	4.53	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	CS-137	-0.417	0.491	2454.1	pCi/L	2.5	2.5	4.35	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	EU-154	1.86			pCi/L	7.8	7.8	15.2	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	EU-154	0.0429	1.86	191.0	pCi/L	8.1	8.1	15.4	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	EU-155	1.05			pCi/L	5.3	5.3	9.31	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	EU-155	-0.576	1.05	686.1	pCi/L	5.8	5.8	10.5	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	K-40	15.7			pCi/L	54	54	48.7	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	K-40	-4.62	15.7	366.8	pCi/L	37	37	76.4	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	RU-106	13.7			pCi/L	21	21	41.2	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	RU-106	5.83	13.7	80.6	pCi/L	19	19	37	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	SB-125	-4.59			pCi/L	6.4	6.4	10.6	U
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	SB-125	0.271	-4.59	-225.1	pCi/L	5.5	5.5	10.3	U
SESPMNT	B14CT2	FFTF POND	SURFACE	8-Apr-02	M	3120			pCi/L	140	170	162	
SESPSPEC	B14CV3	FFTF POND	SURFACE	8-Apr-02	M	3080	3120	1.3	pCi/L	140	170	166	
SESPMNT	B158H8	100 N -1 HRM 9.5	RIVER	5-Sep-02	SR-90	0.0948			pCi/L	0.028	0.036	0.0368	
SESPSPEC	B158H3	100 N -1 HRM 9.5	RIVER	5-Sep-02	SR-90	0.0739	0.0948	24.8	pCi/L	0.028	0.034	0.0401	
SESPMNT	B158H8	100 N -1 HRM 9.5	RIVER	5-Sep-02	M	31.9			pCi/L	2.7	4.1	5.05	

Table Q-5. Water Sample Field Duplicate Results, 2002

										ASSOCIATED TO VALUE RPTD COLUMN			
OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP DATE	CON SHORT NAME	VALUE RPTD	Replicate Value	Relative % Difference	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	LAB QUALIFIER
SESPSPEC	B158H3	100 N -1 HRM 9.5	RIVER	5-Sep-02	M	37.6	31.9	16.4	pCi/L	2.8	4.5	5.06	
SESPMNT	B158H8	100 N -1 HRM 9.5	RIVER	5-Sep-02	U-234	0.206			pCi/L	0.04	0.055	0.0164	
SESPSPEC	B158H3	100 N -1 HRM 9.5	RIVER	5-Sep-02	U-234	0.194	0.206	6.0	pCi/L	0.034	0.049	0.00788	
SESPMNT	B158H8	100 N -1 HRM 9.5	RIVER	5-Sep-02	U-235	0.00374			pCi/L	0.0071	0.0074	0.00479	U
SESPSPEC	B158H3	100 N -1 HRM 9.5	RIVER	5-Sep-02	U-235	0.00559	0.00374	39.7	pCi/L	0.0082	0.0085	0.012	U
SESPMNT	B158H8	100 N -1 HRM 9.5	RIVER	5-Sep-02	U-238	0.152			pCi/L	0.034	0.044	0.013	
SESPSPEC	B158H3	100 N -1 HRM 9.5	RIVER	5-Sep-02	U-238	0.155	0.152	2.0	pCi/L	0.03	0.042	0.013	
SESPMNT	B16346	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	SR-90	0.0652			pCi/L	0.028	0.034	0.0443	
SESPSPEC	B16341	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	SR-90	0.0727	0.0652	10.9	pCi/L	0.028	0.034	0.0414	
SESPMNT	B16346	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	M	63.3			pCi/L	3.2	6.4	5	
SESPSPEC	B16341	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	M	54.2	63.3	15.5	pCi/L	3.1	5.7	4.94	
SESPMNT	B16346	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	U-234	0.217			pCi/L	0.04	0.057	0.0125	
SESPSPEC	B16341	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	U-234	0.181	0.217	18.1	pCi/L	0.041	0.053	0.0157	
SESPMNT	B16346	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	U-235	0.00689			pCi/L	0.0083	0.0087	0.00462	U
SESPSPEC	B16341	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	U-235	-0.0012	0.00689	281.8	pCi/L	0.0074	0.0076	0.0157	U
SESPMNT	B16346	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	U-238	0.19			pCi/L	0.037	0.051	0.00462	
SESPSPEC	B16341	RICH.PMPHS-1 HRM46.4	RIVER	10-Dec-02	U-238	0.187	0.19	1.6	pCi/L	0.041	0.053	0.00579	

Table Q-6. Washington State Department of Health (WADOH) and PNNL Biota Collocated Samples, 2002

OWNER ID	SAMP NUM	SAMP SITE NAME	MEDIA	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY
SESPMNT	B14RP9	SUNNYSIDE AREA	BI	CHERRIES	FRUIT	10-Jun-02	CO-60	0.00224	pCi/g	0.0049	0.0049	0.00912
WADOH	28964	SUNNYSIDE AREA	BI	CHERRIES	FRUIT	10-Jun-02	CO-60	0.0085	pCi/g	0.0064		0.01
SESPMNT	B14RP9	SUNNYSIDE AREA	BI	CHERRIES	FRUIT	10-Jun-02	CS-137	-0.000227	pCi/g	0.0044	0.0044	0.00765
WADOH	28964	SUNNYSIDE AREA	BI	CHERRIES	FRUIT	10-Jun-02	CS-137	-0.0032	pCi/g	0.0061		0.02
SESPMNT	B14RP9	SUNNYSIDE AREA	BI	CHERRIES	FRUIT	10-Jun-02	SR-90	0.00145	pCi/g	0.0022	0.0023	0.00378
WADOH	28964	SUNNYSIDE AREA	BI	CHERRIES	FRUIT	10-Jun-02	SR-90	0.001	pCi/g	0.002		0.06
SESPMNT	B14RR2	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	CO-60	-0.00351	pCi/g	0.0044	0.0044	0.00728
WADOH	28990	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	CO-60	0.002	pCi/g	0.004		0.01
SESPMNT	B14RR2	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	CS-137	0.00343	pCi/g	0.0042	0.0042	0.0077
WADOH	28990	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	CS-137	0.001	pCi/g	0.004		0.02
SESPMNT	B14RR2	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	K-40	2.25	pCi/g	0.32	0.32	0.0669
WADOH	28990	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	K-40	2.2	pCi/g	0.1		0.29
SESPMNT	B14RR2	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	SR-90	-0.000179	pCi/g	0.0017	0.0017	0.00302
WADOH	28990	RINGOLD AREA	BI	CHERRIES	FRUIT	12-Jun-02	SR-90	0.001	pCi/g	0.002		0.06
SESPMNT	B14RP4	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	CO-60	0.000409	pCi/g	0.0045	0.0045	0.008
WADOH	28729	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	CO-60	-0.0011	pCi/g	0.0065		0.01
SESPMNT	B14RP4	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	CS-137	0.00156	pCi/g	0.0036	0.0036	0.00644
WADOH	28729	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	CS-137	-0.0024	pCi/g	0.006		0.02
SESPMNT	B14RP4	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	K-40	2.74	pCi/g	0.37	0.37	0.0599
WADOH	28729	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	K-40	2.1	pCi/g	0.2		0.29
SESPMNT	B14RP4	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	SR-90	-0.00102	pCi/g	0.0018	0.0018	0.00342
WADOH	28729	SAGEMOOR AREA	BI	CHERRIES	FRUIT	12-Jun-02	SR-90	0	pCi/g	0.002		0.06
SESPMNT	B14RP1	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	CO-60	0.000129	pCi/g	0.0058	0.0058	0.0101
WADOH	28728	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	CO-60	0.0008	pCi/g	0.0035		0.01
SESPMNT	B14RP1	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	CS-137	0.00393	pCi/g	0.0048	0.0048	0.00876
WADOH	28728	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	CS-137	0.0021	pCi/g	0.0037		0.02
SESPMNT	B14RP1	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	K-40	2.29	pCi/g	0.34	0.34	0.0843
WADOH	28728	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	K-40	2.2	pCi/g	0.1		0.29
SESPMNT	B14RP1	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	SR-90	-0.00101	pCi/g	0.0013	0.0016	0.0031
WADOH	28728	RIVERVIEW AREA	BI	CHERRIES	FRUIT	14-Jun-02	SR-90	0	pCi/g	0.002		0.06
SESPMNT	B164C8	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	C0-60	1.75	pCi/L	3.5	3.5	6.35
SESPMNT	B164C9	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	C0-60	2.26	pCi/L	3.5	3.5	6.59
WADOH	29032	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	C0-60	-1	pCi/L	4		0.01
SESPMNT	B164C8	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	CS-137	0.742	pCi/L	3.5	3.5	6.12
SESPMNT	B164C9	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	CS-137	-1.12	pCi/L	3	3	5.09
WADOH	29032	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	CS-137	3.2	pCi/L	3.8		0.02
WADOH	29032	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	TRITIUM	122	pCi/L	45		50
SESPMNT	B164J1	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	TRITIUM	83.7	pCi/L			
SESPMNT	B164J2	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	TRITIUM	97.1	pCi/L			
SESPMNT	B164C8	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	K-40	809	pCi/L	140	140	50.6
SESPMNT	B164C9	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	K-40	753	pCi/L	150	150	55.7
WADOH	29032	COLUMBIA BASIN	BI	WINE	RED WINE	19-Dec-02	K-40	973	pCi/L	91		0.29
WADOH	29034	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	C0-60	-0.04	pCi/L	3.31		0.01
SESPMNT	B164C2	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	C0-60	2.49	pCi/L	3.8	3.8	6.9
SESPMNT	B164C3	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	C0-60	2.98	pCi/L	3.4	3.4	6.56

Table Q-6. Washington State Department of Health (WADOH) and PNNL Biota Collocated Samples, 2002

OWNER ID	SAMP NUM	SAMP SITE NAME	MEDIA	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY
WADOH	29034	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	CS-137	2.9	pCi/L	3.7		0.02
SESPMNT	B164C2	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	CS-137	-0.203	pCi/L	3.4	3.4	5.88
SESPMNT	B164C3	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	CS-137	-0.44	pCi/L	3.1	3.1	5.42
WADOH	29034	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	TRITIUM	-18	pCi/L	44		50
SESPMNT	B164H7	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	TRITIUM	32.8	pCi/L			
SESPMNT	B164H8	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	TRITIUM	10.8	pCi/L			
WADOH	29034	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	K-40	1450	pCi/L	110		0.29
SESPMNT	B164C2	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	K-40	1400	pCi/L	210	210	54.3
SESPMNT	B164C3	YAKIMA VALLEY	BI	WINE	RED WINE	19-Dec-02	K-40	1430	pCi/L	210	210	51.8
SESPMNT	B164D1	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	C0-60	1.43	pCi/L	2.4	2.4	4.69
SESPMNT	B164D2	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	C0-60	-0.92	pCi/L	3.3	3.3	5.76
WADOH	29035	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	C0-60	1	pCi/L	6		0.01
SESPMNT	B164D1	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	CS-137	1.05	pCi/L	2.4	2.4	4.35
SESPMNT	B164D2	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	CS-137	0.393	pCi/L	3	3	5.3
WADOH	29035	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	CS-137	-3	pCi/L	6		0.02
WADOH	29035	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	TRITIUM	31	pCi/L	43		50
SESPMNT	B164J3	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	TRITIUM	116.1	pCi/L			
SESPMNT	B164J4	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	TRITIUM	LOST IN LAB.				
SESPMNT	B164D1	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	K-40	522	pCi/L	100	100	44.5
SESPMNT	B164D2	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	K-40	340	pCi/L	110	110	196
WADOH	29035	COLUMBIA BASIN	BI	WINE	WINE	19-Dec-02	K-40	494	pCi/L	148		0.29
WADOH	29033	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	C0-60	1	pCi/L	5		0.01
SESPMNT	B164C5	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	C0-60	-0.128	pCi/L	3	3	5.32
SESPMNT	B164C6	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	C0-60	-4.92	pCi/L	3.5	3.5	5.38
WADOH	29033	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	CS-137	0.5	pCi/L	5.5		0.02
SESPMNT	B164C5	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	CS-137	-0.462	pCi/L	2.6	2.6	4.44
SESPMNT	B164C6	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	CS-137	-1.26	pCi/L	3.1	3.1	5.27
WADOH	29033	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	TRITIUM	41	pCi/L	44		50
SESPMNT	B164H9	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	TRITIUM	11.5	pCi/L			
SESPMNT	B164J0	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	TRITIUM	8.6	pCi/L			
WADOH	29033	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	K-40	696	pCi/L	156		0.29
SESPMNT	B164C5	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	K-40	544	pCi/L	130	130	43.8
SESPMNT	B164C6	YAKIMA VALLEY	BI	WINE	WINE	19-Dec-02	K-40	456	pCi/L	120	120	45.4
SESPMNT	B14MN1	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	CO-60	0.0108	pCi/g	0.015	0.015	0.0272
WADOH	28727	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	CO-60	-0.002	pCi/g	0.004		0.01
SESPMNT	B14MN1	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	CS-137	-0.0194	pCi/g	0.015	0.015	0.023
WADOH	28727	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	CS-137	0.038	pCi/g	0.008		0.02
SESPMNT	B14MN1	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	K-40	2.17	pCi/g	0.51	0.51	0.216
WADOH	28727	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	K-40	2.6	pCi/g	0.2		0.29
SESPMNT	B14MN1	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	SR-90	-0.00161	pCi/g	0.0019	0.0019	0.00372
WADOH	28727	EAST WAHLUKE AREA	BI	LEAFY VEGETABLES	STM-LV	5-Jun-02	SR-90	0.072	pCi/g	0.012		0.06
SESPMNT	B14MN4	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	CO-60	0.012	pCi/g	0.013	0.013	0.0249
WADOH	28724	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	CO-60	0.002	pCi/g	0.003		0.01
SESPMNT	B14MN4	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	CS-137	-0.00389	pCi/g	0.012	0.012	0.0205
WADOH	28724	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	CS-137	0.002	pCi/g	0.004		0.02

Table Q-6. Washington State Department of Health (WADOH) and PNNL Biota Collocated Samples, 2002

OWNER ID	SAMP NUM	SAMP SITE NAME	MEDIA	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY
SESPMNT	B14MN4	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	K-40	2.65	pCi/g	0.51	0.51	0.206
WADOH	28724	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	K-40	2.1	pCi/g	0.1		0.29
SESPMNT	B14MN4	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	SR-90	0.00139	pCi/g	0.0021	0.0022	0.00362
WADOH	28724	RIVERVIEW AREA	BI	LEAFY VEGETABLES	STM-LV	6-Jun-02	SR-90	-0.001	pCi/g	0.002		0.06
WADOH	28988	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	CO-60	0.003	pCi/g	0.004		0.01
SESPMNT	B153C0	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	CO-60	0.00006	pCi/g	0.0045	0.0045	0.00796
WADOH	28988	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	CS-137	-0.003	pCi/g	0.004		0.02
SESPMNT	B153C0	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	CS-137	0.00424	pCi/g	0.0035	0.0035	0.00665
WADOH	28988	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	K-40	4.26	pCi/g	0.15		0.29
SESPMNT	B153C0	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	K-40	3.45	pCi/g	0.45	0.45	0.0613
WADOH	28988	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	SR-90	0.002	pCi/g	0.002		0.06
SESPMNT	B153C0	HORN RAPIDS AREA	BI	POTATO	TUBER	09-Aug-02	SR-90	0.00915	pCi/g	0.0083	0.0083	0.0138
WADOH	28987	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	K-40	5.08	pCi/g	0.16		0.29
SESPMNT	B153B7	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	K-40	4.18	pCi/g	0.55	0.55	
WADOH	28987	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	CO-60	0.0004	pCi/g	0.0039		0.01
SESPMNT	B153B7	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	CO-60	0.00355	pCi/g	0.0053	0.0053	0.00983
WADOH	28987	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	CS-137	-0.0006	pCi/g	0.004		0.02
SESPMNT	B153B7	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	CS-137	0.000262	pCi/g	0.0046	0.0046	0.00793
WADOH	28987	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	SR-90	0	pCi/g	0.002		0.06
SESPMNT	B153B7	RIVERVIEW AREA	BI	POTATO	TUBER	09-Aug-02	SR-90	0.00678	pCi/g	0.0052	0.0054	0.00886
SESPMNT	B153C9	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	CO-60	0.000069	pCi/g	0.0054	0.0054	0.00961
WADOH	29518	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	CO-60	0.002	pCi/g	0.004		0.01
SESPMNT	B153C9	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	CS-137	0.000982	pCi/g	0.0044	0.0044	0.00786
WADOH	29518	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	CS-137	0.003	pCi/g	0.004		0.02
SESPMNT	B153C9	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	K-40	3.39	pCi/g	0.46	0.46	0.0745
WADOH	29518	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	K-40	4.18	pCi/g	0.21		0.29
SESPMNT	B153C9	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	SR-90	0.00121	pCi/g	0.0052	0.0052	0.00985
WADOH	29518	EAST WAHLUKE AREA	BI	POTATO	TUBER	09-Aug-02	SR-90	0.002	pCi/g	0.002		0.06
WADOH	28841	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	CO-60	-0.0001	pCi/g	0.004		0.01
SESPMNT	B153B5	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	CO-60	-0.000282	pCi/g	0.0054	0.0054	0.00945
WADOH	28841	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	CS-137	-0.004	pCi/g	0.004		0.02
SESPMNT	B153B5	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	CS-137	0.00317	pCi/g	0.0047	0.0047	0.00834
WADOH	28841	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	TRITIUM	-35	pCi/L	42		50
SESPMNT	B153B5	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	TRITIUM	0.258	pCi/g	0.074	0.077	0.159
WADOH	28841	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	K-40	2.1	pCi/g	0.1		0.29
SESPMNT	B153B5	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	K-40	1.7	pCi/g	0.27	0.27	0.0738
WADOH	28841	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	SR-90	0	pCi/g	0.002		0.06
SESPMNT	B153B5	HARRAH/WAPATO AREA	BI	TOMATO	FRUIT	29-Aug-02	SR-90	-0.00114	pCi/g	0.0016	0.0016	0.00295

Table Q-7. Washington State Department of Health (WADOH) and PNNL Thermoluminescent Dosimeter (TLD) Collocated Samples, 2002

OWNER ID	SAMP NUM	SAMP SITE NAME	MEDIA	SAMP DATE	CON SHORT NAME	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	LLD	COMMENT
SESPMNT	B146J7	100 B REACTOR MUSEUM	ER	20-Mar-02	TLD	0.241	mR/d	0.002		
SESPMNT	B14VX6	100 B REACTOR MUSEUM	ER	27-Jun-02	TLD	0.237	mR/d	0.01		
SESPMNT	B15CB8	100 B REACTOR MUSEUM	ER	18-Sep-02	TLD	0.228	mR/d	0.002		
SESPMNT	B16526	100 B REACTOR MUSEUM	ER	23-Dec-02	TLD	0.251	mR/d	0.009		
WADOH	28974	100 B REACTOR MUSEUM	ER	15-Feb-02	TLD	0.21	mR/d	0.02	0.01	
WADOH	28975	100 B REACTOR MUSEUM	ER	15-May-02	TLD	0.2	mR/d	0.01	0.01	
WADOH	28976	100 B REACTOR MUSEUM	ER	15-Aug-02	TLD	0.15	mR/d	0.01	0.01	
WADOH	28977	100 B REACTOR MUSEUM	ER	15-Nov-02	TLD	0.2	mR/d	0.01	0.01	
SESPMNT	B146J8	313 BLDG.	ER	21-Mar-02	TLD	0.293	mR/d	0.001		
SESPMNT	B14VX7	313 BLDG.	ER	27-Jun-02	TLD	0.287	mR/d	0.012		
SESPMNT	B15CB9	313 BLDG.	ER	19-Sep-02	TLD	0.291	mR/d	0.012		
SESPMNT	B16527	313 BLDG.	ER	26-Dec-02	TLD	0.305	mR/d	0.021		
WADOH	28982	313 BLDG.	ER	15-Feb-02	TLD	0.31	mR/d	0.07	0.01	
WADOH	28983	313 BLDG.	ER	15-May-02	TLD	0.29	mR/d	0.01	0.01	
WADOH	28984	313 BLDG.	ER	15-Aug-02	TLD	0.24	mR/d	0.02	0.01	
WADOH	28985	313 BLDG.	ER	15-Nov-02	TLD	0.31	mR/d	0.01	0.01	
SESPMNT	B146W8	BYERS LANDING	ER	29-Mar-02	TLD	0.265	mR/d	0.004		
SESPMNT	B14VL1	BYERS LANDING	ER	20-Jun-02	TLD	0.274	mR/d	0.014		
SESPMNT	B15DN7	BYERS LANDING	ER	27-Sep-02	TLD	0.261	mR/d	0		
SESPMNT	B164H3	BYERS LANDING	ER	20-Dec-02	TLD	0.273	mR/d	0.004		
WADOH	28991	BYERS LANDING	ER	15-Feb-02	TLD					1ST QUARTER TLD NOT PLACED IN FIELD
WADOH	28992	BYERS LANDING	ER		TLD					2ND QUARTER TLD NOT PLACED IN FIELD
WADOH	28993	BYERS LANDING	ER	15-Aug-02	TLD	0.21	mR/d	0.01	0.01	
WADOH	28994	BYERS LANDING	ER	15-Nov-02	TLD	0.27	mR/d	0.01	0.01	
SESPMNT	B146W2	E OF 200 E	ER	27-Mar-02	TLD	0.239	mR/d	0.001		
SESPMNT	B14VK5	E OF 200 E	ER	18-Jun-02	TLD	0.257	mR/d	0.007		
SESPMNT	B15DN1	E OF 200 E	ER	24-Sep-02	TLD	0.238	mR/d	0.007		
SESPMNT	B164F7	E OF 200 E	ER	17-Dec-02	TLD	0.256	mR/d	0.003		
WADOH	28756	E OF 200 E	ER	15-Feb-02	TLD	0.27	mR/d	0.03	0.01	
WADOH	28784	E OF 200 E	ER	15-May-02	TLD	0.25	mR/d	0.01	0.01	
WADOH	28785	E OF 200 E	ER	15-Aug-02	TLD	0.19	mR/d	0.01	0.01	
WADOH	28786	E OF 200 E	ER	15-Nov-02	TLD	0.26	mR/d	0.02	0.01	
SESPMNT	B146V9	KENNEWICK-ELY STREET	ER	29-Mar-02	TLD	0.208	mR/d	0.007		
SESPMNT	B14VK2	KENNEWICK-ELY STREET	ER	20-Jun-02	TLD	0.211	mR/d	0.002		
SESPMNT	B15DM8	KENNEWICK-ELY STREET	ER	27-Sep-02	TLD	0.206	mR/d	0.003		
SESPMNT	B164F4	KENNEWICK-ELY STREET	ER	20-Dec-02	TLD	0.226	mR/d	0.002		
WADOH	28079	KENNEWICK-ELY STREET	ER	15-Feb-02	TLD	0.21	mR/d	0.03	0.01	
WADOH	28080	KENNEWICK-ELY STREET	ER	15-May-02	TLD	0.19	mR/d	0.01	0.01	
WADOH	28081	KENNEWICK-ELY STREET	ER	15-Aug-02	TLD	0.16	mR/d	0.01	0.01	
WADOH	28082	KENNEWICK-ELY STREET	ER	15-Nov-02	TLD	0.22	mR/d	0.02	0.01	
SESPMNT	B146J6	LIGO	ER	20-Mar-02	TLD	0.205	mR/d	0		
SESPMNT	B14VX5	LIGO	ER	27-Jun-02	TLD	0.199	mR/d	0		
SESPMNT	B15CB7	LIGO	ER	18-Sep-02	TLD	0.206	mR/d	0.011		
SESPMNT	B16525	LIGO	ER	23-Dec-02	TLD	0.219	mR/d	0.004		

Table Q-7. Washington State Department of Health (WADOH) and PNNL Thermoluminescent Dosimeter (TLD) Collocated Samples, 2002

OWNER ID	SAMP NUM	SAMP SITE NAME	MEDIA	SAMP DATE	CON SHORT NAME	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	LLD	COMMENT
WADOH	28978	LIGO	ER	15-Feb-02	TLD	0.24	mR/d	0.04	0.01	
WADOH	28979	LIGO	ER	15-May-02	TLD	0.23	mR/d	0.02	0.01	
WADOH	28980	LIGO	ER	15-Aug-02	TLD	0.18	mR/d	0.01	0.01	
WADOH	28981	LIGO	ER	15-Nov-02	TLD	0.24	mR/d	0.04	0.01	
SESPMNT	B146W1	N OF 200 E	ER	27-Mar-02	TLD	0.236	mR/d	0.004		
SESPMNT	B14VK4	N OF 200 E	ER	18-Jun-02	TLD	0.244	mR/d	0.004		
SESPMNT	B15DN0	N OF 200 E	ER	24-Sep-02	TLD	0.253	mR/d	0.004		
SESPMNT	B164F6	N OF 200 E	ER	17-Dec-02	TLD	0.252	mR/d	0.008		
WADOH	28757	N OF 200 E	ER	15-Feb-02	TLD	0.23	mR/d	0.02	0.01	
WADOH	28781	N OF 200 E	ER	15-May-02	TLD	0.22	mR/d	0.01	0.01	
WADOH	28782	N OF 200 E	ER	15-Aug-02	TLD	0.18	mR/d	0.01	0.01	
WADOH	28783	N OF 200 E	ER	15-Nov-02	TLD	0.24	mR/d	0.01	0.01	
SESPMNT	B146V7	OTHELLO	ER	28-Mar-02	TLD	0.223	mR/d	0		
SESPMNT	B14VH0	OTHELLO	ER	19-Jun-02	TLD	0.203	mR/d	0.012		
SESPMNT	B15DL7	OTHELLO	ER	26-Sep-02	TLD	0.2	mR/d	0.014		
SESPMNT	B164C1	OTHELLO	ER	18-Dec-02	TLD	0.224	mR/d	0.016		
WADOH	28758	OTHELLO	ER	15-Feb-02	TLD	0.21	mR/d	0.03	0.01	
WADOH	28765	OTHELLO	ER	15-May-02	TLD	0.2	mR/d	0.02	0.01	
WADOH	28766	OTHELLO	ER	15-Aug-02	TLD	0.15	mR/d	0.02	0.01	
WADOH	28767	OTHELLO	ER	15-Nov-02	TLD	0.21	mR/d	0.01	0.01	
SESPMNT	B14688	PROSSER BARRICADE	ER	22-Mar-02	TLD	0.255	mR/d	0.017		
SESPMNT	B14VT2	PROSSER BARRICADE	ER	28-Jun-02	TLD	0.257	mR/d	0.006		
SESPMNT	B15BY9	PROSSER BARRICADE	ER	20-Sep-02	TLD	0.26	mR/d	0.006		
SESPMNT	B164T7	PROSSER BARRICADE	ER	27-Dec-02	TLD	0.263	mR/d	0		
WADOH	28111	PROSSER BARRICADE	ER	15-Feb-02	TLD	0.29	mR/d	0.05	0.01	
WADOH	28112	PROSSER BARRICADE	ER	15-May-02	TLD	0.24	mR/d	0.02	0.01	
WADOH	28113	PROSSER BARRICADE	ER	15-Aug-02	TLD	0.2	mR/d	0.01	0.01	
WADOH	28114	PROSSER BARRICADE	ER	15-Nov-02	TLD	0.27	mR/d	0.01	0.01	
SESPMNT	B14691	TOPPENISH	ER	22-Mar-02	TLD	0.191	mR/d	0.003		
SESPMNT	B14VT3	TOPPENISH	ER	28-Jun-02	TLD	0.192	mR/d	0.004		
SESPMNT	B15C04	TOPPENISH	ER	20-Sep-02	TLD	0.185	mR/d	0.001		
SESPMNT	B164V0	TOPPENISH	ER	27-Dec-02	TLD	0.216	mR/d	0.013		
WADOH	28759	TOPPENISH	ER	15-Feb-02	TLD	0.18	mR/d	0.04	0.01	
WADOH	28790	TOPPENISH	ER	15-May-02	TLD	0.19	mR/d	0.01	0.01	
WADOH	28791	TOPPENISH	ER	15-Aug-02	TLD	0.15	mR/d	0.02	0.01	
WADOH	28792	TOPPENISH	ER	15-Nov-02	TLD	0.2	mR/d	0.01	0.01	
SESPMNT	B146D4	US ECOLOGY NE CORNER	ER	19-Mar-02	TLD	0.235	mR/d	0.01		
SESPMNT	B14VT8	US ECOLOGY NE CORNER	ER	26-Jun-02	TLD	0.237	mR/d	0.007		
SESPMNT	B15C15	US ECOLOGY NE CORNER	ER	18-Sep-02	TLD	0.236	mR/d	0.006		
SESPMNT	B164Y3	US ECOLOGY NE CORNER	ER	23-Dec-02	TLD	0.229	mR/d	0.008		
WADOH	29167	US ECOLOGY NE CORNER	ER	15-Feb-02	TLD	0.25	mR/d	0.03	0.01	
WADOH	29172	US ECOLOGY NE CORNER	ER	15-May-02	TLD	0.23	mR/d	0.01	0.01	
WADOH	29173	US ECOLOGY NE CORNER	ER	15-Aug-02	TLD	0.19	mR/d	0.01	0.01	
WADOH	29174	US ECOLOGY NE CORNER	ER	15-Nov-02	TLD	0.25	mR/d	0.01	0.01	

Table Q-7. Washington State Department of Health (WADOH) and PNNL Thermoluminescent Dosimeter (TLD) Collocated Samples, 2002

OWNER ID	SAMP NUM	SAMP SITE NAME	MEDIA	SAMP DATE	CON SHORT NAME	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	LLD	COMMENT
SESPMNT	B146D6	CORNER	ER	19-Mar-02	TLD	0.235	mR/d	0.005		
SESPMNT	B14VV0	CORNER	ER	26-Jun-02	TLD	0.243	mR/d	0.002		
SESPMNT	B15C17	CORNER	ER	18-Sep-02	TLD	0.247	mR/d	0.011		
SESPMNT	B164Y5	CORNER	ER	23-Dec-02	TLD	0.252	mR/d	0		
WADOH	29168	CORNER	ER	15-Feb-02	TLD	0.27	mR/d	0.04	0.01	
WADOH	29178	CORNER	ER	15-May-02	TLD	0.24	mR/d	0.01	0.01	
WADOH	29179	CORNER	ER	15-Aug-02	TLD	0.2	mR/d	0.01	0.01	
WADOH	29180	CORNER	ER	15-Nov-02	TLD	0.26	mR/d	0.02	0.01	
SESPMNT	B146D5	US ECOLOGY SE CORNER	ER	19-Mar-02	TLD	0.247	mR/d	0.009		
SESPMNT	B14VT9	US ECOLOGY SE CORNER	ER	26-Jun-02	TLD	0.25	mR/d	0.014		
SESPMNT	B15C16	US ECOLOGY SE CORNER	ER	18-Sep-02	TLD	0.241	mR/d	0.018		
SESPMNT	B164Y4	US ECOLOGY SE CORNER	ER	23-Dec-02	TLD	0.261	mR/d	0.002		
WADOH	29169	US ECOLOGY SE CORNER	ER	15-Feb-02	TLD	0.26	mR/d	0.05	0.01	
WADOH	29184	US ECOLOGY SE CORNER	ER	15-May-02	TLD	0.24	mR/d	0.01	0.01	
WADOH	29185	US ECOLOGY SE CORNER	ER	15-Aug-02	TLD	0.19	mR/d	0.01	0.01	
WADOH	29186	US ECOLOGY SE CORNER	ER	15-Nov-02	TLD	0.25	mR/d	0.01	0.01	
SESPMNT	B146D7	CORNER	ER	19-Mar-02	TLD	0.279	mR/d	0.001		
SESPMNT	B14VV1	CORNER	ER	26-Jun-02	TLD	0.258	mR/d	0.009		
SESPMNT	B15C18	CORNER	ER	18-Sep-02	TLD	0.27	mR/d	0.015		
SESPMNT	B164Y6	CORNER	ER	23-Dec-02	TLD	0.28	mR/d	0.003		
WADOH	29170	CORNER	ER	15-Feb-02	TLD	0.3	mR/d	0.04	0.01	
WADOH	29181	CORNER	ER	15-May-02	TLD	0.25	mR/d	0.01	0.01	
WADOH	29182	CORNER	ER	15-Aug-02	TLD	0.22	mR/d	0.01	0.01	
WADOH	29183	CORNER	ER	15-Nov-02	TLD	0.28	mR/d	0.02	0.01	
SESPMNT	B146F2	WYE BARRICADE	ER	20-Mar-02	TLD	0.225	mR/d	0.002		
SESPMNT	B14VV6	WYE BARRICADE	ER	27-Jun-02	TLD	0.23	mR/d	0		
SESPMNT	B15C23	WYE BARRICADE	ER	18-Sep-02	TLD	0.237	mR/d	0.001		
SESPMNT	B16501	WYE BARRICADE	ER	23-Dec-02	TLD	0.253	mR/d	0.004		
WADOH	28762	WYE BARRICADE	ER	15-Feb-02	TLD	0.24	mR/d	0.03	0.01	
WADOH	28771	WYE BARRICADE	ER	15-May-02	TLD	0.23	mR/d	0.02	0.01	
WADOH	28772	WYE BARRICADE	ER	15-Aug-02	TLD	0.18	mR/d	0.01	0.01	
WADOH	28773	WYE BARRICADE	ER	15-Nov-02	TLD	0.24	mR/d	0.02	0.01	
SESPMNT	B14686	YAKIMA BARRICADE	ER	21-Mar-02	TLD	0.26	mR/d	0.004		
SESPMNT	B14VT0	YAKIMA BARRICADE	ER	27-Jun-02	TLD	0.268	mR/d	0.012		
SESPMNT	B15BY7	YAKIMA BARRICADE	ER	19-Sep-02	TLD	0.261	mR/d	0.016		
SESPMNT	B164T5	YAKIMA BARRICADE	ER	26-Dec-02	TLD	0.28	mR/d	0.001		
WADOH	28763	YAKIMA BARRICADE	ER	15-Feb-02	TLD	0.25	mR/d	0.06	0.01	
WADOH	28768	YAKIMA BARRICADE	ER	15-May-02	TLD	0.25	mR/d	0.02	0.01	
WADOH	28769	YAKIMA BARRICADE	ER	15-Aug-02	TLD	0.19	mR/d	0.01	0.01	
WADOH	28770	YAKIMA BARRICADE	ER	15-Nov-02	TLD	0.25	mR/d	0.03	0.01	