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Bechtel

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Re:		**CC:**	

☐ **Urgent** ☑ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

•Comments:

NONE of these samples were included in areas that were reclassified.

A-258

9528

BKGD- 9.5Kcpm
Action Level - 10.9 Kcpm
Sample measurement - 8.58 Kcpm
Location

Table 1
General Data Table
Bechtel Power Corporation
Antech Ltd. Project No. 01-1427W
Soil Characterization; FSS: 24265-450-82.00.8280 COC#585
Charge Order No. 24265-FBS-S-00445-AC; Haddam Neck Decomissioning

Parameter	Analytical Method	Units	Sample Identification 0111-0121W 9528-0000-008F (11/13/01) Act ± Unc (MDC)
K-40	RA-100	pCi/g	1.18E1 ± 1.6E0 (5.6E-1)
Mn-54	RA-100	pCi/g	-2.86E-2 ± 3.4E-2 (5.7E-2)
Co-60	RA-100	pCi/g	-6.92E-3 ± 3.2E-2 (6.0E-2)
Nb-94	RA-100	pCi/g	-1.36E-2 ± 2.9E-2 (5.0E-2)
Cs-134	RA-100	pCi/g	1.41E-2 ± 4.2E-2 (6.5E-2)
Cs-137	RA-100	pCi/g	6.71E-1 ± 1.1E-1 (6.4E-2)
Eu-152	RA-100	pCi/g	-1.80E-2 ± 1.5E-1 (1.9E-1)
Eu-154	RA-100	pCi/g	-2.33E-2 ± 9.9E-2 (1.7E-1)
Eu-155	RA-100	pCi/g	1.08E-1 ± 1.7E-1 (3.0E-1)
Tl-208	RA-100	pCi/g	4.24E-1 ± 7.8E-2 (6.7E-2)
Bi-212	RA-100	pCi/g	1.76E0 ± 6.8E-1 (8.3E-1)
Pb-212	RA-100	pCi/g	1.36E0 ± 2.0E-1 (1.1E-1)
Bi-214	RA-100	pCi/g	1.20E0 ± 1.5E-1 (4.3E-1)
Pb-214	RA-100	pCi/g	1.27E0 ± 1.5E-1 (1.4E-1)
Ra-226	RA-100	pCi/g	1.86E0 ± 1.4E0 (1.5E0)
Ac-228	RA-100	pCi/g	1.26E0 ± 1.7E-1 (1.7E-1)
Am-241(GS)	RA-100	pCi/g	-1.77E-2 ± 3.0E-1 (5.2E-1)
Moisture Content	ASTM 2216-98	%	25.0

Act ± Unc (MDC) is the activity with 2 sigma uncertainty and the associated Minimum Detectable Concentration

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BKGD. 11.5 Kcpm
Action Level - 13 Kcpm
sample measurement - 12.9 Kcpm
Location

Table 1
(Continued)

Parameter	Analytical Method	Units	Sample Identification 0111-0137A 9528-0000-011F (11/14/01) Act ± Unc (MDC)	
K-40	RA-100	pCi/g	9.79E0 ± 1.4E0	(5.7E-1)
Mn-54	RA-100	pCi/g	5.01E-4 ± 3.5E-2	(6.2E-2)
Co-60	RA-100	pCi/g	1.69E-2 ± 3.2E-2	(6.2E-2)
Nb-94	RA-100	pCi/g	4.17E-3 ± 3.1E-2	(5.6E-2)
Cs-134	RA-100	pCi/g	9.08E-4 ± 3.8E-2	(5.6E-2)
Cs-137	RA-100	pCi/g	7.73E-1 ± 1.2E-1	(6.5E-2)
Eu-152	RA-100	pCi/g	-1.46E-1 ± 1.3E-1	(1.8E-1)
Eu-154	RA-100	pCi/g	-9.12E-2 ± 1.0E-1	(1.6E-1)
Eu-155	RA-100	pCi/g	-1.21E-4 ± 1.6E-1	(2.7E-1)
Tl-208	RA-100	pCi/g	4.31E-1 ± 6.6E-2	(6.0E-2)
Bi-212	RA-100	pCi/g	1.96E0 ± 7.3E-1	(7.9E-1)
Pb-212	RA-100	pCi/g	1.12E0 ± 1.8E-1	(1.2E-1)
Bi-214	RA-100	pCi/g	1.27E0 ± 1.6E-1	(3.4E-1)
Pb-214	RA-100	pCi/g	1.43E0 ± 1.6E-1	(1.3E-1)
Ra-226	RA-100	pCi/g	3.56E0 ± 1.3E0	(1.6E0)
Ac-228	RA-100	pCi/g	1.04E0 ± 1.5E-1	(1.9E-1)
Am-241 (GS)	RA-100	pCi/g	5.32E-2 ± 2.0E-1	(3.6E-1)
Moisture Content	ASTM 2216-98	%	32.0	

Act ± Unc (MDC) is the activity with 2 sigma uncertainty and the associated Minimum Detectable Concentration.

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9526

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BKGD - 9.5 Kcpm
Action Level - 10.9 Kcpm
Sample measurement - 10.5 Kcpm
Location

Table 1
(Continued)

Parameter	Analytical Method	Units	Sample Identification 0111-0080A 9526-0000-006F (11/9/01) Act ± Unc (MDC)
			Wrong sample
K-40	RA-100	pCi/g	1.36E1 ± 2.1E0 (6.4E-1)
Mn-54	RA-100	pCi/g	-6.58E-3 ± 4.6E-2 (8.6E-2)
Co-60	RA-100	pCi/g	-4.47E-3 ± 4.4E-2 (8.0E-2)
Nb-94	RA-100	pCi/g	2.07E-2 ± 4.6E-2 (9.3E-2)
Cs-134	RA-100	pCi/g	1.09E-2 ± 4.9E-2 (8.6E-2)
Cs-137	RA-100	pCi/g	3.27E-1 ± 9.7E-2 (9.5E-2)
Eu-152	RA-100	pCi/g	6.67E-2 ± 1.3E-1 (2.4E-1)
Eu-154	RA-100	pCi/g	4.52E-2 ± 1.4E-1 (3.0E-1)
Eu-155	RA-100	pCi/g	1.27E-2 ± 1.5E-1 (2.6E-1)
Tl-208	RA-100	pCi/g	3.19E-1 ± 8.5E-2 (8.6E-2)
Bi-212	RA-100	pCi/g	1.30E0 ± 6.9E-1 (9.4E-1)
Pb-212	RA-100	pCi/g	9.27E-1 ± 1.0E-1 (1.2E-1)
Bi-214	RA-100	pCi/g	1.09E0 ± 1.9E-1 (6.5E-1)
Pb-214	RA-100	pCi/g	9.70E-1 ± 1.6E-1 (1.6E-1)
Ra-226	RA-100	pCi/g	2.49E0 ± 1.6E0 (1.6E0)
Ac-228	RA-100	pCi/g	5.47E-1 ± 2.3E-1 (2.7E-1)
Th-234 (GS)	RA-100	pCi/g	9.09E-1 ± 1.2E0 (2.2E0)
U-235 (GS)	RA-100	pCi/g	-6.69E-3 ± 3.1E-1 (5.3E-1)
Am-241 (GS)	RA-100	pCi/g	1.36E-1 ± 1.2E-1 (2.2E-1)
Moisture Content	ASTM 2216-98	%	5.70

Act ± Unc (MDC) is the activity with 2 sigma uncertainty and the associated Minimum Detectable Concentration.

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Table 1
General Data Table
Bechtel Power Corporation
Antech Ltd. Project No. 01-1420B
Soil Characterization; FSS: 24265-450-82.00-8280 COC#2805
Charge Order No. 24265-FBS-S-00445-AC; Haddam Neck Decommissioning

Parameter	Analytical Method	Units	Sample Identification 0111-00B0B 9526-0000-006F (11/9/01) Act ± Unc (MDC)	
H-3	RA-420	pCi/g	1.35E0 ± 1.6E0	(2.7E0)
C-14	RA-420	pCi/g	4.32E-1 ± 8.8E-1	(1.5E0)
Fe-55	A-527	pCi/g	1.65E2 ± 7.7E1	(1.8E2)
Ni-63	A-527	pCi/g	3.31E-1 ± 4.4E0	(7.6E0)
Sr-89	RA-320	pCi/g	-1.17E-1 ± 3.9E-1	(7.4E-1)
Sr-90	RA-320	pCi/g	3.26E-1 ± 3.1E-1	(5.0E-1)
Tc-99	RA-450	pCi/g	1.29E0 ± 1.5E0	(2.4E0)
I-129	A-526	pCi/g	-1.36E-3 ± 6.3E-1	(1.2E0)
Np-237	Eichrom	pCi/g	-2.52E-3 ± 5.1E-3	(1.2E-2)
Pu-238	RA-220	pCi/g	-4.74E-3 ± 4.1E-2	(1.1E-1)
Pu-239/240	RA-220	pCi/g	4.74E-3 ± 3.1E-2	(8.2E-2)
Pu-241	RA-220	pCi/g	5.03E0 ± 4.2E0	(6.4E0)
Am-241 (AS)	RA-220	pCi/g	1.71E-2 ± 2.9E-2	(5.7E-2)
Cm-242	RA-220	pCi/g	-6.53E-3 ± 1.3E-2	(4.5E-2)
Cm-243/244	RA-220	pCi/g	-3.21E-2 ± 2.7E-2	(8.0E-2)

Act ± Unc (MDC) is the activity with 2 sigma uncertainty and the associated Minimum Detectable Concentration.

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Biased sample located in scan area #4 where scan exceeded action level

BKGD - 15.5 Kcpm
Action level .. 17.3 Kcpm
Sample measurement location - 17.8 Kcpm

Table 1
(Continued)

Parameter	Analytical Method	Units	Sample Identification 0111-0218W 9526-0000-016PB (11/16/01) Act ± Unc (MDC)
K-40	A-524	pCi/g	1.10E1 ± 1.6E0 (4.7E-1)
Mn-54	A-524	pCi/g	-2.05E-2 ± 3.8E-2 (6.5E-2)
Co-60	RA-100	pCi/g	2.39E-3 ± 3.1E-2 (6.1E-2)
Nb-94	A-524	pCi/g	1.29E-2 ± 3.3E-2 (6.2E-2)
Cs-134	A-524	pCi/g	-2.90E-2 ± 4.1E-2 (5.6E-2)
Cs-137	A-524	pCi/g	3.01E-1 ± 7.4E-2 (6.0E-2)
Eu-152	A-524	pCi/g	5.47E-2 ± 1.3E-1 (1.8E-1)
Eu-154	A-524	pCi/g	-2.51E-2 ± 1.1E-1 (1.8E-1)
Eu-155	A-524	pCi/g	1.03E-1 ± 1.7E-1 (3.0E-1)
Tl-208	A-524	pCi/g	3.78E-1 ± 7.5E-2 (6.9E-2)
Bi-212	A-524	pCi/g	1.54E0 ± 6.9E-1 (8.1E-1)
Pb-212	A-524	pCi/g	1.04E0 ± 1.8E-1 (1.2E-1)
Bi-214	A-524	pCi/g	9.87E-1 ± 1.4E-1 (4.0E-1)
Pb-214	A-524	pCi/g	9.73E-1 ± 1.5E-1 (1.3E-1)
Ra-226	A-524	pCi/g	2.32E0 ± 1.5E0 (1.6E0)
Ac-228	A-524	pCi/g	1.07E0 ± 1.7E-1 (2.2E-1)
Am-241 (GS)	A-524	pCi/g	2.14E-2 ± 2.9E-1 (5.1E-1)
Moisture Content	ASTM 2216-98	%	11.1

Act ± Unc (MDC) is the activity with 2 sigma uncertainty and the associated Minimum Detectable Concentration.

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This sample was taken at a spot determined by CTDLP and was not scanned.

Also, this sample was outside of the scope of the survey plan. A split was obtained with CTDLP to corroborate results.

Table 1
(Continued)

Parameter	Analytical Method	Units	Sample Identification 0112-0009W 9526-0000-021 FS (11/27/01) Act ± Unc (MDC)
K-40	RA-100	pCi/g	9.97E0 ± 1.7E0 (5.6E-1)
Mn-54	RA-100	pCi/g	1.60E-2 ± 3.5E-2 (6.9E-2)
Co-60	RA-100	pCi/g	2.89E-3 ± 3.6E-2 (7.2E-2)
Nb-94	RA-100	pCi/g	-1.40E-3 ± 2.5E-2 (4.9E-2)
Cs-134	RA-100	pCi/g	5.37E-3 ± 2.9E-2 (5.0E-2)
Cs-137	RA-100	pCi/g	6.17E-1 ± 1.2E-1 (7.1E-2)
Eu-152	RA-100	pCi/g	4.30E-2 ± 1.1E-1 (2.0E-1)
Eu-154	RA-100	pCi/g	-3.02E-2 ± 1.2E-1 (2.1E-1)
Eu-155	RA-100	pCi/g	2.56E-2 ± 1.1E-1 (1.9E-1)
Tl-208	RA-100	pCi/g	3.35E-1 ± 8.3E-2 (1.5E-1)
Bi-212	RA-100	pCi/g	9.72E-1 ± 6.9E-1 (8.5E-1)
Pb-212	RA-100	pCi/g	8.59E-1 ± 2.1E-1 (1.6E-1)
Bi-214	RA-100	pCi/g	7.82E-1 ± 1.6E-1 (8.4E-1)
Pb-214	RA-100	pCi/g	8.79E-1 ± 1.7E-1 (1.4E-1)
Ra-226	RA-100	pCi/g	3.06E0 ± 1.4E0 (1.4E0)
Ac-228	RA-100	pCi/g	8.69E-1 ± 2.0E-1 (2.3E-1)
Am-241 (GS)	RA-100	pCi/g	-2.04E-2 ± 8.5E-2 (1.5E-1)
Moisture Content	ASTM 2216-98	%	36.8

Act ± Unc (MDC) is the activity with 2 sigma uncertainty and the associated Minimum Detectable Concentration