04/10/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :R1800

ENVIRONS

PACKAGE DESCRIPTION

Bailey House Area

SURVEY AREA DESCRIPTION

Bailey House Area

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Bailey House Area is a mixed area of open grassland and woodland, and there is no known radionuclude contamination or reason to suspect contamination in this area.

SUMMARY OF CHARACTERIZATION ACTIVITIES

(1) An approximate 100% vehicle gamma scan of accessible areas was performed using a large plastic scintillator detector. The locations of the scanning results were identified using a global positioning system (GPS). Four locations gave elevated count rates. They were each marked in the field with a flag.

(2) Additional scanning of the marked locations was performed using a NaI(Tl) detector and soil samples of these four locations were obtained under Package R2500.

(3) The perimeter of the survey area was marked in approximately 50 meter increments to assist in performing step (4).

(4) Thirty-one grid locations (approximately 50 x 50 meter) were identified by random selection. The locations of the 30 random sample points were in addition to the four marked elevated areas.

(5) Thirty-one 6" depth soil samples were obtained from the random sample locations established in step (4).

(6) At each random sample location, a 1-meter gamma exposure rate (micro-R/hr) measurement was performed.

CHARACTERIZATION SURVEY RESULTS

(1) The Bailey Farm Area drive-over gamma scanning survey identified four elevated locations, which are labeled # 9, 10, 11, and 12 on Figure 3. follow-up manual gamma scanning surveys did not identify any locations within these four elevated areas that gave higher count rates than the flagged locations. For the twenty 0-6" depth soil samples taken at these locations under Package R2500, the gamma spectroscopic analyses did not show the presence of Co-60 and gave Cs-137 concentrations that ranged from 0.00 to 0.15 pCi/g. At the locations of the soil samples, the exposure rate measurements gave a mean value of 12.0 uR/hr and a range of 10.4 to 15.5 uR/hr, which is consistent with background values. MicroSpec *in situ* spectra did not show the presence of Co-60 at the four elevated areas.

(2) Thirty-one random soil samples of 0-6" depth were obtained from the grassland and small areas of woodland. These samples were in addition to the samples taken to evaluate the elevated locations identified by drive-over gamma scanning. The gamma spectroscopic analyses of these 31 samples did not show the presence of Co-60 and gave Cs-137 concentrations that ranged from 0.00 to 0.76 pCi/g.

(3) The thirty-one 1-meter exposure rate measurements gave a mean value of 10.8 uR/hr with a range of 7.6 to 14.6 uR/hr, which is consistent with background values.

(4) In summary, the qualitative results of the gamma scanning surveys, the quantitative gamma spectroscopic analyses of 31 random soil samples, the results of 31 exposure rate (uR/hr) measurements, and the results of

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four qualitative MicroSpec spectra demonstrate that the Bailey House Area is unaffected by radioactive materials from the plant.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

04/09/98 OUTPUT BATCH SN = 657

PACKAGE R1800 ENVIRONS
Bailey House Area

UNIT(S)
01 - Open land areas

SURFACE(S)
OA1 (Surface Soil Sample @ 0"-6" Depth)
OL2 (Open Land Areas)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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04/09/98

Exposure Rate Measurements

Survey Package R1800 ENVIRONS
Bailey House Area

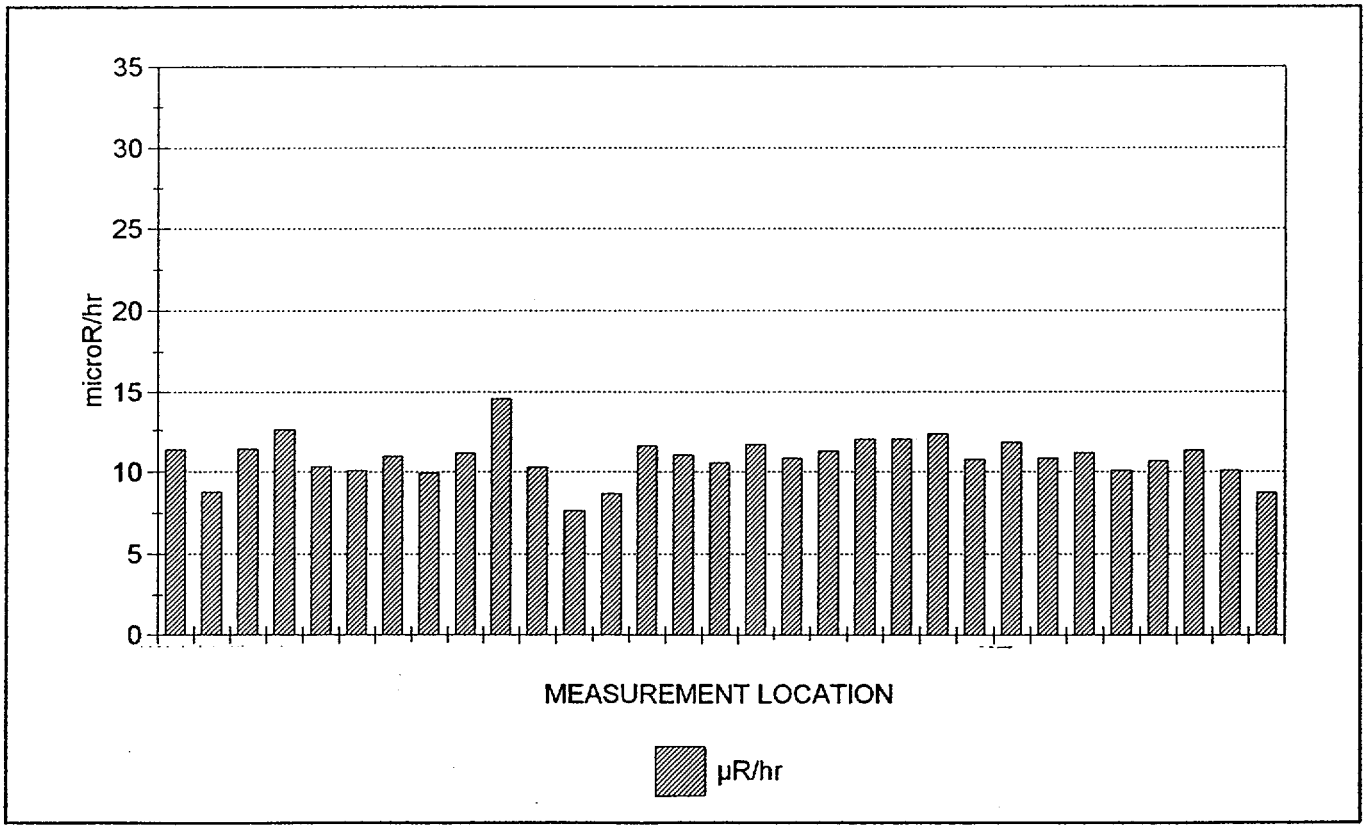
STATISTICAL SUMMARY

	µR/hr
Mean	10.83
Maximum	14.57
Minimum	7.64
Standard Deviation	1.31

Samples Reported	31
Samples Prescribed	31

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



31 RESULTS ARE GRAPHED

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DBACORR Documentation
:aProgDBACORR:F_0221.FSL
OUTPUT BATCH SN = 657

PAJ

Survey Package : R1800 ENVIRONS
Bailey House Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
12 (2)	01	OL2	G0006	C01	60.00	00003-00001	***11.31***
12 (2)	01	OL2	G0006	C01	60.00	00005-00001	8.76
12 (2)	01	OL2	G0006	C01	60.00	00007-00001	***11.36***
12 (2)	01	OL2	G0006	C01	60.00	00011-00001	***12.55***
12 (2)	01	OL2	G0006	C01	60.00	00012-00001	***10.32***
12 (2)	01	OL2	G0006	C01	60.00	00017-00001	***10.05***
12 (2)	01	OL2	G0006	C01	60.00	00023-00001	***10.95***
12 (2)	01	OL2	G0006	C01	60.00	00025-00001	9.91
12 (2)	01	OL2	G0006	C01	60.00	00027-00001	***11.14***
12 (2)	01	OL2	G0006	C01	60.00	00028-00001	***14.57***
12 (2)	01	OL2	G0006	C01	60.00	00032-00001	***10.26***
12 (2)	01	OL2	G0006	C01	60.00	00033-00001	7.64
12 (2)	01	OL2	G0006	C01	60.00	00037-00001	8.67
12 (2)	01	OL2	G0006	C01	60.00	00038-00001	***11.55***
12 (2)	01	OL2	G0006	C01	60.00	00039-00001	***11.02***
12 (2)	01	OL2	G0006	C01	60.00	00044-00001	***10.54***
12 (2)	01	OL2	G0006	C01	60.00	00045-00001	***11.62***
12 (2)	01	OL2	G0006	C01	60.00	00047-00001	***10.80***
12 (2)	01	OL2	G0006	C01	60.00	00049-00001	***11.25***
12 (2)	01	OL2	G0006	C01	60.00	00055-00001	***11.97***
12 (2)	01	OL2	G0006	C01	60.00	00060-00001	***11.97***
12 (2)	01	OL2	G0006	C01	60.00	00061-00001	***12.29***
12 (2)	01	OL2	G0006	C01	60.00	00062-00001	***10.75***
12 (2)	01	OL2	G0006	C01	60.00	00063-00001	***11.77***
12 (2)	01	OL2	G0006	C01	60.00	00066-00001	***10.82***
12 (2)	01	OL2	G0006	C01	60.00	00069-00001	11.11
12 (2)	01	OL2	G0006	C01	60.00	00070-00001	***10.07***
12 (2)	01	OL2	G0006	C01	60.00	00074-00001	***10.66***
12 (2)	01	OL2	G0006	C01	60.00	00075-00001	***11.27***
12 (2)	01	OL2	G0006	C01	60.00	00076-00001	***10.05***
12 (2)	01	OL2	G0006	C01	60.00	00079-00001	8.72

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
31 results are listed.

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 31

04/09/98

OUTPUT BATCH SN = 657

Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00007-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY260	ENV00050	1,380.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	25.20	0.59	2.10
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00075-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY392	ENV00133	1,480.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.17	0.05	0.04
				K-40	20.10	0.45	1.73
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00066-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY393	ENV00134	1,550.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.04	0.05	0.03
				K-40	20.40	0.45	1.78
				Mn-54	< .07	0.07	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00060-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY394	ENV00140	1,560.00.	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	22.30	0.61	2.12
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00074-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY395	H2O00071	1,300.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.14	0.04	0.04
				K-40	17.90	0.54	1.64
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00055-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY396	ENV00141	1,540.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .07	0.07	0.00
				K-40	21.50	0.64	2.08
				Mn-54	< .08	0.08	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00063-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY397	ENV00136	1,300.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.04	0.04	0.03
				K-40	22.80	0.52	1.96
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00062-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY398	ENV00142	1,460.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	19.40	0.52	1.78
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00037-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY399	BIO00006	585.00	1800	Co-57	< .07	0.07	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.69	0.07	0.09
				K-40	23.70	0.54	2.19
				Mn-54	< .10	0.10	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00025-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY400	H2O00047	1,030.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.13	0.07	0.05
				K-40	24.40	0.58	2.18
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00038-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY401	ENV00144	1,490.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .07	0.07	0.00
				K-40	20.80	0.56	1.87
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00049-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY402	ENV00137	1,480.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	18.80	0.51	1.65
				Mn-54	< .07	0.07	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00033-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY403	BIO00002	789.00	1800	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.41	0.06	0.07
				K-40	22.20	0.64	2.06
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00070-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY404	ENV00146	1,080.00	1500	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.47	0.06	0.07
				K-40	18.60	0.48	1.76
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00011-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY405	ENV00139	1,460.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.05	0.06	0.04
				K-40	23.10	0.49	1.93
				Mn-54	< .08	0.08	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY406	ENV00140	1,240.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .07	0.07	0.00
				K-40	27.30	0.69	2.29
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00027-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY407	ENV00141	863.00	1500	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.76	0.06	0.09
				K-40	16.50	0.35	1.59
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00032-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY408	ENV00147	1,640.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.13	0.08	0.06
				K-40	20.70	0.44	1.97
				Mn-54	< .06	0.06	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00012-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY409	ENV00142	989.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.57	0.10	0.08
				K-40	21.20	0.45	1.87
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00017-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY410	ENV00149	1,050.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.27	0.09	0.07
				K-40	20.30	0.73	2.02
				Mn-54	< .10	0.10	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00047-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY411	ENV00143	1,180.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.29	0.07	0.06
				K-40	18.80	0.46	1.73
				Mn-54	< .08	0.08	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00079-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY412	ENV00150	941.00	1500	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.37	0.06	0.06
				K-40	17.80	0.57	1.76
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY605	H2O00045	1,100.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.26	0.07	0.06
				K-40	19.60	0.62	1.83
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00076-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY608	H2O00039	1,160.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.23	0.07	0.06
				K-40	16.80	0.69	1.73
				Mn-54	< .09	0.09	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00044-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY609	H2O00049	1,490.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	19.10	0.50	1.66
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00023-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY611	H2O00051	1,090.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.51	0.06	0.07
				K-40	18.20	0.49	1.73
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00045-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY613	H2O00034	1,290.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.09	0.06	0.04
				K-40	22.20	0.64	1.94
				Mn-54	< .08	0.08	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00028-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY615	H2O00043	1,380.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	< .08	0.08	0.00
				K-40	31.60	0.52	2.52
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00069-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY617	H2O00035	1,260.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.12	0.06	0.04
				K-40	22.20	0.54	1.94
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00061-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY619	ENV00195	1,650.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.06	0.05	0.03
				K-40	25.30	0.44	2.31
				Mn-54	< .09	0.09	0.00

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Survey Package R1800 ENVIRONS
Bailey House Area

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00039-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY997	H2O00224	1,120.00	2000	Co-57	< .05	0.05	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.13	0.04	0.03
				K-40	19.40	0.43	1.60
				Mn-54	< .06	0.06	0.00

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06/04/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :R1900 ENVIRONS

PACKAGE DESCRIPTION Bailey Cove

SURVEY AREA DESCRIPTION
Bailey Cove

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

For the first two years of operation, the plant discharged condenser cooling water and liquid effluents directly into Bailey Cove. With the Forebay and diffusers installed, tidal action would be expected to transport some sediments from the diffuser areas in Montsweag Bay into Bailey Cove. These sediments would be expected to exhibit trace quantities of radionuclides from the liquid effluents. Although routine environmental monitoring by Maine Yankee and State of Maine approval of clamming in Bailey Cove have provided no indication of harmful levels of radionuclides in Bailey Cove, it is considered prudent to sample sediments in Bailey Cove away from the shoreline.

SUMMARY OF CHARACTERIZATION ACTIVITIES

(1) Seven survey locations were selected for sampling. For each, at low tide, a 6" depth sediment sample consisting of two 3" segments for depth profiles was taken. This was repeated at two additional nearby locations for each of the survey locations, giving a total of six samples per survey location. Subsequently, the three nearby 3" segments of similar depth were composited to give two samples (0-3" and 3-6") for each sample location. From the seven sample locations, a total of 14 composite sediment samples were obtained for the entire package.

CHARACTERIZATION SURVEY RESULTS

(1) For the fourteen 0-3" and 3-6" depth profile sediment samples taken at seven locations in Bailey Cove (refer to Figure 10), none of the gamma spectroscopic results were greater than the *a priori* and measurement MDA for Co-60. The range of Cs-137 concentrations was 0.18 to 0.43 pCi/g.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

06/04/98

OUTPUT BATCH SN = 240

PACKAGE R1900 ENVIRONS
Bailey Cove

UNIT(S)	**SURFACE(S)**
01 - Baily Cove	OS1 (0-3" Section of Sediment) OS2 (3- 6" Section of Sediment)

REASON(S) CHARACTERIZATION SURVEY (C01)

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 14

06/04/98 OUTPUT BATCH SN = 240

Survey Package R1900 ENVIRONS
Bailey Cove

UNIT : 01 SURFACE : OS1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00023-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY691	BIO00016	940.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.18	0.06	0.05
				K-40	17.20	0.64	1.72
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00020-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY695	H2O00086	1,110.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.22	0.08	0.06
				K-40	18.40	0.32	1.72
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00017-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY697	H2O00091	992.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.22	0.06	0.05
				K-40	16.40	0.81	1.79
				Mn-54	< .09	0.09	0.00

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GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 14

06/04/98

OUTPUT BATCH SN = 240

Survey Package R1900 ENVIRONS
Bailey Cove

UNIT : 01 SURFACE : OS1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY887	H2O00163	995.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.35	0.06	0.06
				K-40	22.10	0.42	1.93
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY893	H2O00162	982.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.28	0.05	0.05
				K-40	20.70	0.51	1.94
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00005-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY897	H2O00164	960.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.24	0.08	0.06
				K-40	22.20	0.45	1.95
				Mn-54	< .08	0.08	0.00

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Survey Package R1900 ENVIRONS
Bailey Cove

UNIT : 01 SURFACE : OS1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY901	H2O00167	985.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.29	0.06	0.06
				K-40	20.90	0.46	1.86
				Mn-54	< .08	0.08	0.00

UNIT : 01 SURFACE : OS2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00023-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY689	H2O00089	1,170.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.24	0.07	0.06
				K-40	16.90	0.59	1.72
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00020-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY693	H2O00090	1,100.00	1200	Co-57	< .06	0.07	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.23	0.07	0.06
				K-40	18.00	0.50	1.81
				Mn-54	< .08	0.08	0.00

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Survey Package R1900 ENVIRONS
Bailey Cove

UNIT : 01 SURFACE : OS2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00017-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY699	H2O00095	1,020.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.28	0.06	0.06
				K-40	19.70	0.54	1.98
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY891	H2O00161	999.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.37	0.08	0.07
				K-40	22.00	0.56	2.03
				Mn-54	< .10	0.10	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY895	BIO00024	951.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.29	0.07	0.06
				K-40	22.70	0.60	2.09
				Mn-54	< .09	0.09	0.00

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GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 14

06/04/98

OUTPUT BATCH SN = 240

Survey Package R1900 ENVIRONS
Bailey Cove

UNIT : 01 SURFACE : OS2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00005-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY899	H2O00166	1,040.00	1500	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.08	0.00
				Cs-137	.33	0.06	0.06
				K-40	20.90	0.58	1.84
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY903	BIO00025	930.00	1200	Co-57	< .07	0.07	0.00
				Co-60	.04	0.06	0.04
				Cs-134	< .09	0.09	0.00
				Cs-137	.30	0.07	0.06
				K-40	21.90	0.64	2.05
				Mn-54	< .09	0.09	0.00

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04/10/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :R2000

ENVIRONS

PACKAGE DESCRIPTION

Diffusers

SURVEY AREA DESCRIPTION

Diffusers

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

Liquid effluents may contain small amounts of radionuclides that are dispersed into Montsweag Bay when discharged through the diffusers. A portion of these radionuclides would become bound to sediments, which would eventually become distributed over a broad area. For example, evidence of such sediments with very low levels of radionuclides has been found in the plant cooling water intake structure. These sediments would be expected to be representative of the radionuclide distribution in Montsweag Bay and Bailey Cove. Sediments along the shorelines will be sampled under Package R0014. The relatively fast current in the deep water of Back River should preclude the deposition of sediments in proximity to the diffusers. However, several locations along the diffusers will be examined, and sediment samples will be obtained if sufficient sediment is present.

SUMMARY OF CHARACTERIZATION ACTIVITIES

(1) Five survey locations in proximity to the diffuser pipes in Montsweag Bay were selected for sampling. Using a spring loaded sampling device, five sediment samples were obtained.

CHARACTERIZATION SURVEY RESULTS

(1) For the five sediment samples taken at five locations in proximity to the diffusers (refer to Figure 11), the gamma spectroscopic analyses identified two samples with Co-60 concentrations of 0.08 and 0.12 pCi/g. The range of Cs-137 concentrations for all five samples was 0.00 to 0.13 pCi/g.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 245

PACKAGE R2000 ENVIRONS
Diffusers

UNIT(S)	**SURFACE(S)**
01 - Diffusers	OS1 (Surface 0-6" Sediment Samples)

REASON(S) CHARACTERIZATION SURVEY (C01)

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 5

04/09/98

OUTPUT BATCH SN = 672

Survey Package R2000 ENVIRONS
Diffusers

UNIT : 01 SURFACE : OS1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY877	H2O00156	1,280.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.06	0.05	0.03
				K-40	19.20	0.39	1.72
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY880	H2O00148	1,000.00	1500	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.11	0.06	0.04
				K-40	20.70	0.66	1.95
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY881	H2O00157	1,330.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .07	0.07	0.00
				K-40	18.70	0.48	1.68
				Mn-54	< .07	0.07	0.00

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Survey Package R2000 ENVIRONS
Diffusers

UNIT : 01 SURFACE : OS1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00006-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY883	H2O00159	1,140.00	1200	Co-57	< .07	0.07	0.00
				Co-60	.12	0.07	0.04
				Cs-134	< .08	0.08	0.00
				Cs-137	.10	0.05	0.04
				K-40	18.70	0.65	1.76
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00007-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY885	H2O00158	1,130.00	1200	Co-57	< .07	0.07	0.00
				Co-60	.08	0.06	0.03
				Cs-134	< .08	0.08	0.00
				Cs-137	.13	0.07	0.05
				K-40	19.00	0.37	1.76
				Mn-54	< .08	0.08	0.00

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04/10/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :R2100 ENVIRONS

PACKAGE DESCRIPTION Maintenance Yard (stockyard)

SURVEY AREA DESCRIPTION
Maintenance Yard

GENERAL HISTORICAL INFORMATION (Operational history, etc.)
The Maintenance Yard has no reported uses as a radioactive materials storage area or other possible means of becoming contaminated. This yard is mostly contained within a wood fence adjacent to the spare generator building.

SUMMARY OF CHARACTERIZATION ACTIVITIES
For Yard Survey:
(1) An approximate 100% gamma scan of accessible areas was performed using a plastic scintillator detector giving counts/sec. The locations of the scanning results were identified using a global positioning system (GPS). No elevated readings were given.

(2) The perimeter of the area was marked in approximately 10 meter increments to assist in performing step (3).

(3) The size of the yard area allowed for 30 grids (approximately 10 x 10 meters). A 6" depth soil sample was obtained from each of the 30 grids using a sample point offset value of 1 meter north and 4 meters west from the southeast grid corners.

(4) At each sample location, a 1-meter exposure rate (micro-R/hr) measurement was performed.

For Concrete Blocks:
(5) The pile of concrete blocks inside the yard was investigated in accordance with the unaffected structures characterization procedure. After a beta scan of the blocks was performed, 30 direct beta measurements at locations of the highest count rates identified during the beta scan were performed.

For Wood Blocks:
(6) The pallets of wood blocks inside the yard were investigated in accordance with the unaffected structures characterization procedure. After a beta scan of the blocks was performed, 30 direct beta measurements at locations of the highest count rates identified during the beta scan were performed.

CHARACTERIZATION SURVEY RESULTS
(1) The drive-over gamma scanning survey did not identify any elevated locations in the Maintenance Yard.

(2) Thirty soil samples were obtained from the survey area. The gamma spectroscopic analyses of these 30 samples did not show the presence of Co-60 and gave a range of Cs-137 concentrations of 0.00 to 0.43 pCi/g.

(3) The thirty 1-meter exposure rate measurements gave a mean value of 8.4 uR/hr with a range of 6.1 to 10.6 uR/hr, which is consistent with background values.

(4) The results of the 60 direct beta measurements on the wood and concrete blocks are indicative of no plant derived radioactive materials on the surfaces of these blocks.

(5) In summary, the qualitative results of gamma scanning surveys, the quantitative gamma spectroscopic analyses of 30 surface soil samples, the results of 60 direct beta measurements, and the results of 30 exposure

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rate (uR/hr) measurements demonstrate that the Maintenance Yard is unaffected by radioactive materials from the plant.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

04/09/98 OUTPUT BATCH SN = 660

PACKAGE R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT(S)	SURFACE(S)
01 - Yard	OA1 (Surface Soil Sample @ 0"-6" Depth)
02 - Concrete Blocks	EQ1 (Equipment)
03 - Wood Blocks	EQ1 (Equipment)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
B0025	WOOD - PAINTED	0.00
B0039	CONCRETE - BARE (EXTERIOR)	665.00
G0006	SURFACE SOIL - GAMMA	0.00

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04/09/98

Direct Measurements For Total Beta Activity

Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

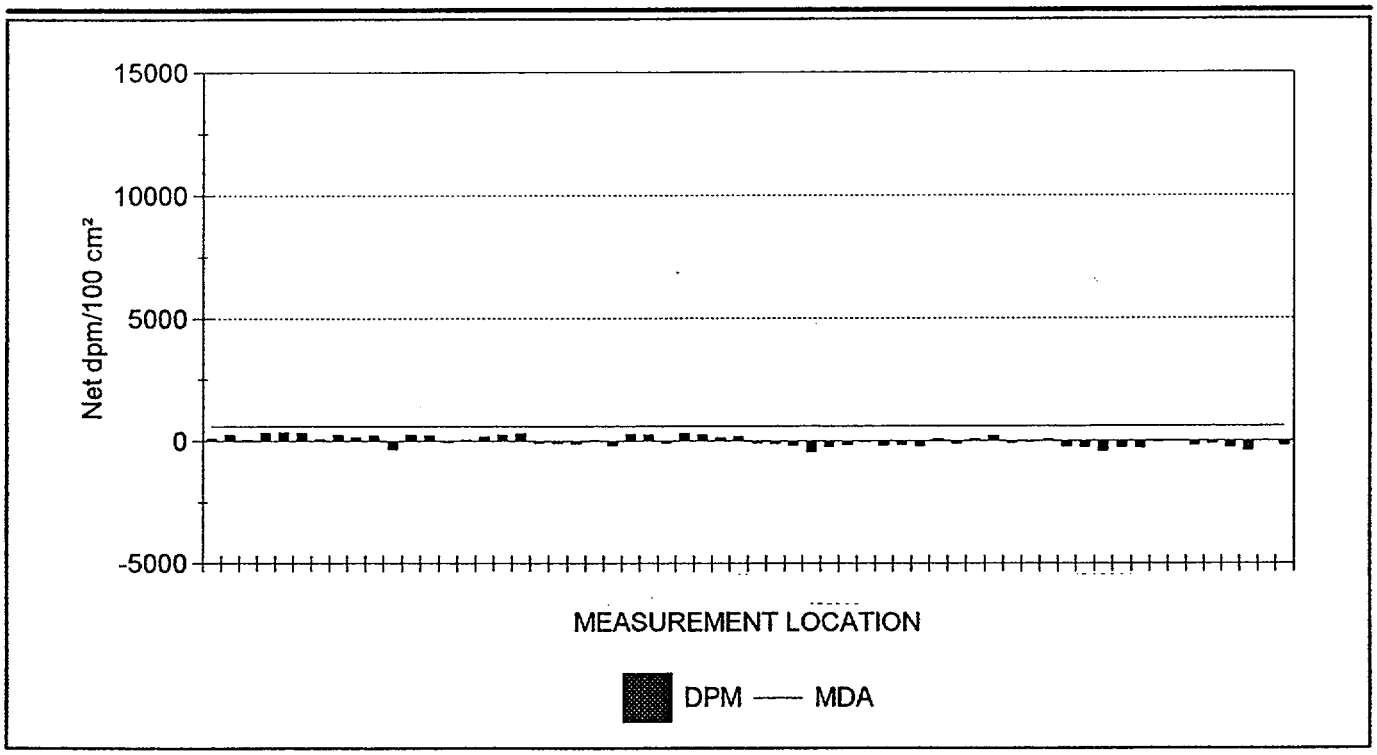
STATISTICAL SUMMARY

	Net dpm/100 cm²
Mean	-0.82
Maximum	364.70
Minimum	-431.27
Standard Deviation	214.97
MDA	594.35

Samples Reported	60
Samples Prescribed	60

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm²	YES
Results above 2000 net dpm/100 cm²	0
Number of results above MDA	0



60 RESULTS ARE GRAPHED

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OUTPUT BATCH SN = 660

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04/09/98

Direct Measurements For Total Beta Activity

Survey Package : R2100 ENVIRONS
Maintenance Yard (stockyard)

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
6 (2)	02	EQ1	B0039	C01	10	00001	594.35	109.61
6 (2)	02	EQ1	B0039	C01	10	00002	594.35	271.94
6 (2)	02	EQ1	B0039	C01	10	00003	594.35	63.23
6 (2)	02	EQ1	B0039	C01	10	00004	594.35	341.51
6 (2)	02	EQ1	B0039	C01	10	00005	594.35	364.70
6 (2)	02	EQ1	B0039	C01	10	00006	594.35	341.51
6 (2)	02	EQ1	B0039	C01	10	00007	594.35	86.42
6 (2)	02	EQ1	B0039	C01	10	00008	594.35	271.94
6 (2)	02	EQ1	B0039	C01	10	00009	594.35	155.99
6 (2)	02	EQ1	B0039	C01	10	00010	594.35	225.56
6 (2)	02	EQ1	B0039	C01	10	00011	594.35	-331.00
6 (2)	02	EQ1	B0039	C01	10	00012	594.35	271.94
6 (2)	02	EQ1	B0039	C01	10	00013	594.35	225.56
6 (2)	02	EQ1	B0039	C01	10	00014	594.35	-52.72
6 (2)	02	EQ1	B0039	C01	10	00015	594.35	63.23
6 (2)	02	EQ1	B0039	C01	10	00016	594.35	179.18
6 (2)	02	EQ1	B0039	C01	10	00017	594.35	248.75
6 (2)	02	EQ1	B0039	C01	10	00018	594.35	318.32
6 (2)	02	EQ1	B0039	C01	10	00019	594.35	-75.91
6 (2)	02	EQ1	B0039	C01	10	00020	594.35	-75.91
6 (2)	02	EQ1	B0039	C01	10	00021	594.35	-99.10
6 (2)	02	EQ1	B0039	C01	10	00022	594.35	16.85
6 (2)	02	EQ1	B0039	C01	10	00023	594.35	-191.86
6 (2)	02	EQ1	B0039	C01	10	00024	594.35	295.13
6 (2)	02	EQ1	B0039	C01	10	00025	594.35	271.94
6 (2)	02	EQ1	B0039	C01	10	00026	594.35	-75.91
6 (2)	02	EQ1	B0039	C01	10	00027	594.35	318.32
6 (2)	02	EQ1	B0039	C01	10	00028	594.35	248.75
6 (2)	02	EQ1	B0039	C01	10	00029	594.35	132.80
6 (2)	02	EQ1	B0039	C01	10	00030	594.35	179.18
6 (2)	03	EQ1	B0025	C01	10	00001	594.35	-83.42
6 (2)	03	EQ1	B0025	C01	10	00002	594.35	-106.61
6 (2)	03	EQ1	B0025	C01	10	00003	594.35	-176.18
6 (2)	03	EQ1	B0025	C01	10	00004	594.35	-431.27
6 (2)	03	EQ1	B0025	C01	10	00005	594.35	-245.75
6 (2)	03	EQ1	B0025	C01	10	00006	594.35	-152.99
6 (2)	03	EQ1	B0025	C01	10	00007	594.35	-37.04
6 (2)	03	EQ1	B0025	C01	10	00008	594.35	-176.18
6 (2)	03	EQ1	B0025	C01	10	00009	594.35	-152.99
6 (2)	03	EQ1	B0025	C01	10	00010	594.35	-199.37

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
Underlined values exceed the MDA.
Bold values exceed 2000 dpm/100 cm².

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04/09/98

Direct Measurements For Total Beta Activity

Survey Package : R2100 ENVIRONS
Maintenance Yard (stockyard)

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
6 (2)	03	EQ1	B0025	C01	10	00011	594.35	78.91
6 (2)	03	EQ1	B0025	C01	10	00012	594.35	-106.61
6 (2)	03	EQ1	B0025	C01	10	00013	594.35	78.91
6 (2)	03	EQ1	B0025	C01	10	00014	594.35	218.05
6 (2)	03	EQ1	B0025	C01	10	00015	594.35	-83.42
6 (2)	03	EQ1	B0025	C01	10	00016	594.35	-37.04
6 (2)	03	EQ1	B0025	C01	10	00017	594.35	55.72
6 (2)	03	EQ1	B0025	C01	10	00018	594.35	-222.56
6 (2)	03	EQ1	B0025	C01	10	00019	594.35	-268.94
6 (2)	03	EQ1	B0025	C01	10	00020	594.35	-408.08
6 (2)	03	EQ1	B0025	C01	10	00021	594.35	-268.94
6 (2)	03	EQ1	B0025	C01	10	00022	594.35	-292.13
6 (2)	03	EQ1	B0025	C01	10	00023	594.35	-37.04
6 (2)	03	EQ1	B0025	C01	10	00024	594.35	9.34
6 (2)	03	EQ1	B0025	C01	10	00025	594.35	-176.18
6 (2)	03	EQ1	B0025	C01	10	00026	594.35	-106.61
6 (2)	03	EQ1	B0025	C01	10	00027	594.35	-268.94
6 (2)	03	EQ1	B0025	C01	10	00028	594.35	-384.89
6 (2)	03	EQ1	B0025	C01	10	00029	594.35	9.34
6 (2)	03	EQ1	B0025	C01	10	00030	594.35	-176.18

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
Underlined values exceed the MDA.
Bold values exceed 2000 dpm/100 cm².
60 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

04/09/98

Direct Measurements For Total Beta Activity

Survey Package : R2100 ENVIRONS
Maintenance Yard (stockyard)

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
11/7/97	6 (2)	126182	3/22/98	43-106	128917	3/30/98	.21	LCF0451

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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04/09/98

Exposure Rate Measurements

Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

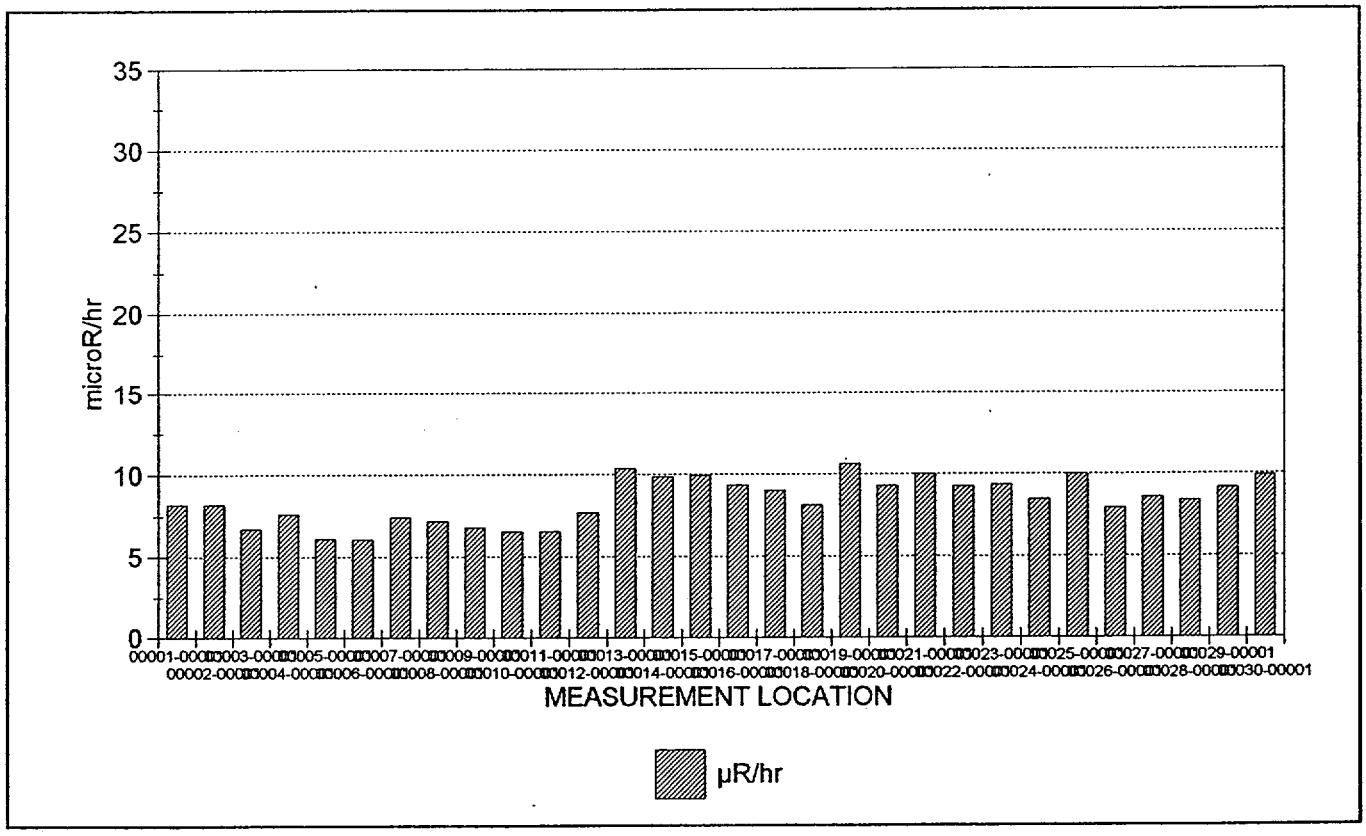
STATISTICAL SUMMARY

	µR/hr
Mean	8.41
Maximum	10.62
Minimum	6.08
Standard Deviation	1.33

Samples Reported	30
Samples Prescribed	30

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



30 RESULTS ARE GRAPHED

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Survey Package : R2100 ENVIRONS
Maintenance Yard (stockyard)

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
5 (2)	01	OA1	G0006	C01	60.00	00001-00001	8.23
5 (2)	01	OA1	G0006	C01	60.00	00002-00001	8.20
5 (2)	01	OA1	G0006	C01	60.00	00003-00001	6.72
5 (2)	01	OA1	G0006	C01	60.00	00004-00001	7.60
5 (2)	01	OA1	G0006	C01	60.00	00005-00001	6.13
5 (2)	01	OA1	G0006	C01	60.00	00006-00001	6.08
5 (2)	01	OA1	G0006	C01	60.00	00007-00001	7.43
5 (2)	01	OA1	G0006	C01	60.00	00008-00001	7.20
5 (2)	01	OA1	G0006	C01	60.00	00009-00001	6.77
5 (2)	01	OA1	G0006	C01	60.00	00010-00001	6.54
5 (2)	01	OA1	G0006	C01	60.00	00011-00001	6.54
5 (2)	01	OA1	G0006	C01	60.00	00012-00001	7.68
5 (2)	01	OA1	G0006	C01	60.00	00013-00001	***10.32***
5 (2)	01	OA1	G0006	C01	60.00	00014-00001	9.81
5 (2)	01	OA1	G0006	C01	60.00	00015-00001	9.90
5 (2)	01	OA1	G0006	C01	60.00	00016-00001	9.33
5 (2)	01	OA1	G0006	C01	60.00	00017-00001	9.01
5 (2)	01	OA1	G0006	C01	60.00	00018-00001	8.11
5 (2)	01	OA1	G0006	C01	60.00	00019-00001	***10.62***
5 (2)	01	OA1	G0006	C01	60.00	00020-00001	9.26
5 (2)	01	OA1	G0006	C01	60.00	00021-00001	9.98
5 (2)	01	OA1	G0006	C01	60.00	00022-00001	9.24
5 (2)	01	OA1	G0006	C01	60.00	00023-00001	9.33
5 (2)	01	OA1	G0006	C01	60.00	00024-00001	8.43
5 (2)	01	OA1	G0006	C01	60.00	00025-00001	***10.00***
5 (2)	01	OA1	G0006	C01	60.00	00026-00001	7.93
5 (2)	01	OA1	G0006	C01	60.00	00027-00001	8.55
5 (2)	01	OA1	G0006	C01	60.00	00028-00001	8.35
5 (2)	01	OA1	G0006	C01	60.00	00029-00001	9.12
5 (2)	01	OA1	G0006	C01	60.00	00030-00001	9.87

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
30 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

04/09/98

Exposure Rate Measurements

Survey Package : R2100 ENVIRONS
Maintenance Yard (stockyard)

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
11/10/97	5 (2)	117014	4/16/98	44-2	118257	4/19/98	LCF0451

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 30

OUTPUT BATCH SN = 660

04/09/98

Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00021-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY117	MY117.CNF	1,767.00	900	Co-57	< .08	0.08	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	21.60	0.47	1.92
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00022-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY118	MY118.CNF	1,700.00	900	Co-57	< .08	0.08	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .08	0.08	0.00
				K-40	21.90	0.67	1.98
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00023-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY119	MY119.CNF	1,817.00	900	Co-57	< .08	0.08	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .07	0.07	0.00
				K-40	21.40	0.41	1.89
				Mn-54	< .07	0.07	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00024-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY120	MY120.CNF	1,864.00	900	Co-57	< .07	0.07	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	21.20	0.22	1.86
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00025-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY121	MY121.CNF	1,731.00	900	Co-57	< .08	0.08	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	20.30	0.53	1.85
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00026-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY122	MY122.CNF	1,810.00	900	Co-57	< .08	0.08	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	20.20	0.57	1.83
				Mn-54	< .08	0.08	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00027-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY123	MY123.CNF	1,928.00	900	Co-57	< .07	0.07	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .06	0.06	0.00
				K-40	20.60	0.61	1.83
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00028-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY124	MY124.CNF	1,841.00	900	Co-57	< .08	0.08	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.09	0.05	0.04
				K-40	20.50	0.54	1.84
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00029-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY125	MY125.CNF	1,626.00	900	Co-57	< .08	0.08	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	20.70	0.57	1.91
				Mn-54	< .07	0.07	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY240	ENV00032	1,720.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .05	0.05	0.00
				K-40	20.70	0.45	1.76
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY241	ENV00033	1,520.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.08	0.06	0.04
				K-40	22.20	0.44	1.90
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY242	ENV00034	1,580.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.20	0.36	1.88
				Mn-54	< .07	0.07	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY243	ENV00035	1,710.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	20.50	0.46	1.75
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY244	ENV00036	1,510.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	21.60	0.57	1.88
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00006-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY245	ENV00037	1,490.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.07	0.00
				Cs-137	< .05	0.05	0.00
				K-40	20.10	0.54	1.73
				Mn-54	< .08	0.08	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00007-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY246	ENV00040	1,810.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	20.10	0.49	1.71
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00008-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY247	ENV00041	1,560.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.70	0.46	1.93
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00009-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY248	ENV00042	1,810.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.20	0.66	1.86
				Mn-54	< .06	0.06	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00011-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY249	ENV00043	1,660.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.40	0.53	1.89
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00012-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY250	ENV00044	1,750.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	20.10	0.48	1.72
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00013-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY251	ENV00045	1,710.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	20.80	0.56	1.97
				Mn-54	< .07	0.07	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00014-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY252	ENV00045	1,800.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	19.60	0.50	1.67
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00015-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY253	ENV00046	1,710.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .06	0.06	0.00
				K-40	21.60	0.74	2.05
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00016-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY254	ENV00046	1,690.00	1200	Co-57	< .06	0.07	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.03	0.05	0.03
				K-40	22.10	0.48	1.86
				Mn-54	< .07	0.07	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00017-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY255	ENV00047	1,650.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	19.80	0.54	1.72
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00018-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY256	ENV00048	1,690.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	20.00	0.39	1.90
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00019-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY257	ENV00048	1,760.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	20.10	0.48	1.72
				Mn-54	< .06	0.06	0.00

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Survey Package R2100 ENVIRONS
Maintenance Yard (stockyard)

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00020-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY495	ENV00173	1,890.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	20.70	0.51	1.74
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00030-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY497	H2O00014	1,400.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.33	0.09	0.07
				K-40	22.30	0.38	1.98
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00010-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY500	ENV00175	1,810.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	18.40	0.44	1.77
				Mn-54	< .07	0.07	0.00

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04/28/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER R2200 ENVIRONS

PACKAGE DESCRIPTION Background

SURVEY AREA DESCRIPTION
Background

GENERAL HISTORICAL INFORMATION (Operational history, etc.)
An area just east of Route 24 near the Merrymeeting Field airport in Bowdoinham was selected as the location for radiological background sampling and measurements. This grassy open area soil type is the same or similar to the soil type around the Old Bailey and Eaton farmsteads. Refer to the memo from R. G. Gerber to P. Garrett, dated 10/23/97, for the selection of this site.

SUMMARY OF CHARACTERIZATION ACTIVITIES

(1) In the selected hay field at the Merrymeeting Airfield, an approximate 100% gamma scan of accessible areas was performed using a plastic scintillator detector giving counts/sec. Locations of the scanning results were identified using a global positioning system (GPS).

(2) The perimeter of the area was marked in approximately 10 meter increments to assist in performing step(3).

(3) Thirty grid locations (approximately 10 x 10 meter) were identified by random selection.

(4) Thirty 6" depth soil samples were obtained from the random sample locations established in step (3) using the sample point offset value of 6 meters north and 3 meters west from southeast grid corners.

(5) At each random sample location, ten 1 meter exposure rate (micro-R/hr) measurements using 1 minute count times were performed.

(6) At each random sample location, ten 1-meter pressurized ion chamber measurements using a 1-minute count times were performed.

(7) In the scrub land across Highway 24 from the survey area identified in step (1), ten 6" depth soil samples were obtained at locations separated by roughly 10 meters. At each sample location, a 1-meter exposure rate (uR/hr) measurement was performed.

(8) In the woodland across Highway 24 from the survey area identified in step (1), ten 6" depth soil samples were obtained at locations separated by roughly 10 meters. At each location, a 1-meter exposure rate (uR/hr) measurement was performed.

(9) Three survey locations were selected for marine sediment sampling from the New Meadows River (Harpswell) near the intersection of Route 24 and Prince Point Rd. For each at low tide, a 6" depth sediment sample consisting of two 3" segments for depth profiles was taken. This was repeated at two additional nearby locations for each of the sampling locations, giving a total of six samples per survey location. Subsequently, the three nearby 3" segments of similar depth were composited to give two samples (0-3" and 3-6") for each survey location. From the three survey locations, a total of six composite sediment samples were obtained from Harpswell.

(10) Three survey locations were selected for marine sediment sampling from the Damariscotta River in the vicinity of Dodge Point. For each at low tide, a 6" depth sediment sample consisting of two 3" segments for depth profiles was taken. This was repeated at two additional nearby locations for each of the sampling

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locations, giving a total of six samples per survey location. Subsequently, the three nearby 3" segments of similar depth were composited to give two samples (0-3" and 3-6") for each survey location. From the three survey locations, a total of six composite sediment samples were obtained from the Damariscotta River.

(11) A well water sample was obtained from the Eaton Barn, Bailey House, and the Maine Yankee environmental monitoring groundwater well at a private home in Days Ferry. A fourth ground water sample was taken from within the town of Edgecomb under Package R2400.

CHARACTERIZATION SURVEY RESULTS

(1) As shown on Figure 2, the drive-over gamma scanning survey recorded a range of less than 650 to approximately 750 counts/second.

(2) Thirty random soil samples of 0-6" depth were obtained from the hay field. The gamma spectroscopic analyses of these samples gave an average Cs-137 concentration of 0.38 pCi/g and a range of values of 0.10 to 0.55 pCi/g.

(3) The average value of the 320 exposure rate measurements taken at the 50 random soil sample locations with a sodium iodide detector was 11.4 uR/hr, with a range of 5.9 to 13.6 uR/hr.

(4) The average value of the 30 exposure rate measurements taken with a pressurized ion chamber (PIC) was 8.22 uR/hr, with a range of 7.18 to 9.34 uR/hr.

(5) Ten random soil samples of 0-6" depth were obtained from the scrub land. The gamma spectroscopic analyses of these samples gave an average Cs-137 concentration of 0.48 pCi/g and a range of values of 0.09 to 1.40 pCi/g.

(6) Ten random soil samples of 0-6" depth were obtained from the woodland. The gamma spectroscopic analyses of these samples gave an average Cs-137 concentration of 0.47 pCi/g and a range of values of 0.10 to 0.91 pCi/g.

(7) For the three 0-3" and 3-6" profiled marine sediment sample locations in Harpswell, the gamma spectroscopic analyses gave the same average Cs-137 concentration of 0.08 pCi/g for each profile.

(8) For the three 0-3" and 3-6" profiled marine sediment sample locations in the Damariscotta River, the gamma spectroscopic analyses gave average Cs-137 concentrations of 0.06 and 0.05 pCi/g, respectively.

(9) Tritium concentrations from the Eaton Barn, Bailey House, and Days Ferry background groundwater samples were 1.52, -3.75 and 2.71 dpm/ml, respectively, which correspond to 685, -1689, and 1220 pCi/L. Note that all three values are below the individual measurements' MDA.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

06/05/98 OUTPUT BATCH SN = 250

PACKAGE R2200 ENVIRONS
Background

UNIT(S)	SURFACE(S)
01 - Open Land Area - CMP ROW	OA1 (Woodland Area, Surface Soil Sample @ 0"-6" Depth) OL1 (Open Land Areas, Surface Soil Sample @ 0"-6" Depth) OL2 (Open Land Areas, Surface Soil Sample @ 0"-6" Depth)
02 - Harpswell - Background Sediment Samples	OS1 (0 - 3" Section of Sediment) OS2 (3" to 6" Sections of Sediment)
03 - Damiscotta River - Background Sediment Samples	OS1 (0 - 3" Section of Sediment) OS2 (3" - 6" Section of Sediment)
04 - Eaton Farm Barn (Community Center) Water Well	OW1 (Groundwater sample)
05 - Bailey Farm House Water Well	OW1 (Groundwater sample)
06 - Days Ferry Water Well	OW1 (Groundwater sample)

REASON(S)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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04/09/98

Exposure Rate Measurements

Survey Package R2200 ENVIRONS
Background

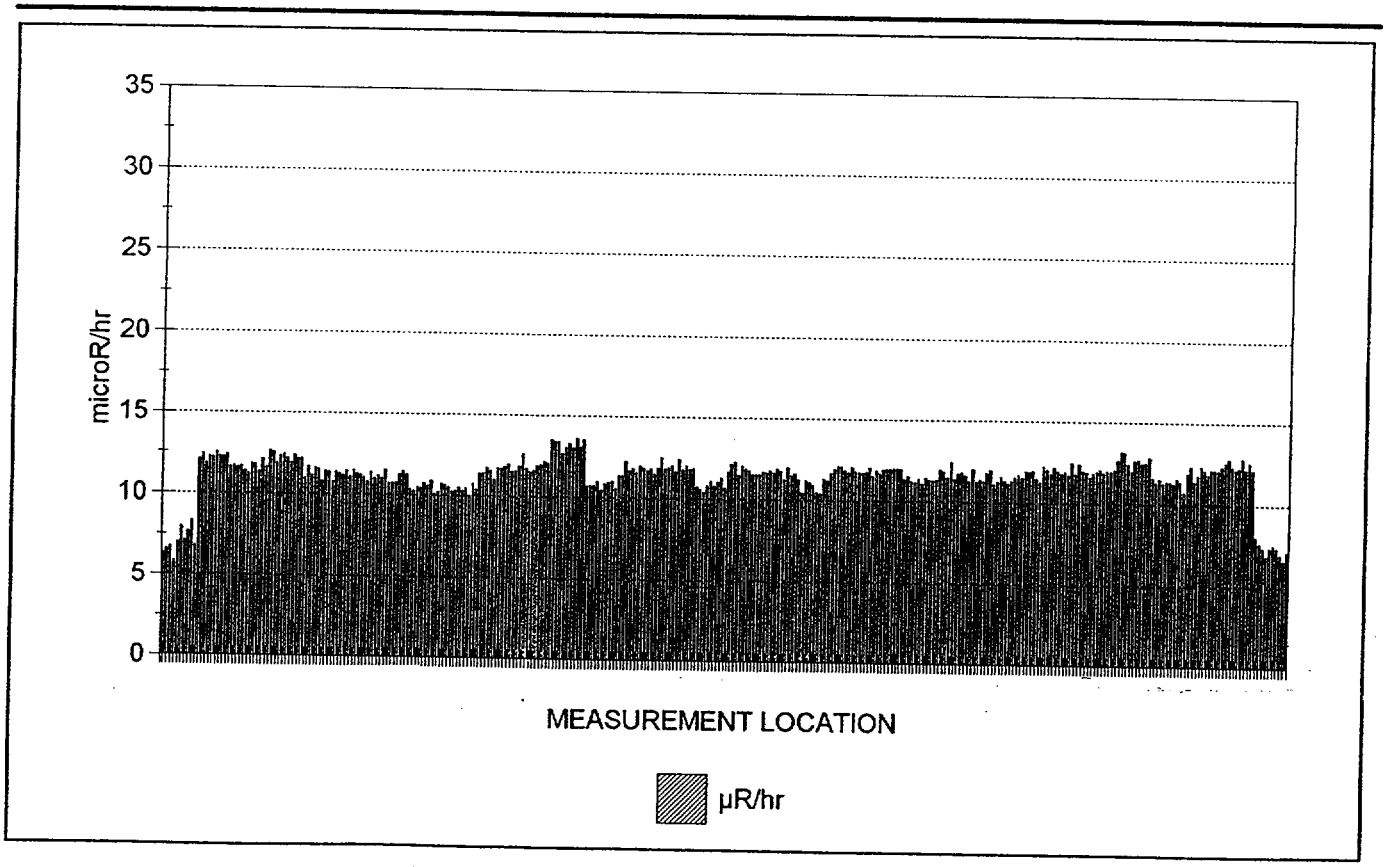
STATISTICAL SUMMARY

	µR/hr
Mean	11.37
Maximum	13.59
Minimum	5.87
Standard Deviation	1.26

Samples Reported	320
Samples Prescribed	320

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



320 RESULTS ARE GRAPHED

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Version 3.0.8 - 4/3/98

PAJ

DBACORR Documentation
:aProgDBACORR:F_0221.FSL
OUTPUT BATCH SN = 706

Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
631 (2)	01	OA1	G0006	B01	60.00	00001-00001	6.37
631 (2)	01	OA1	G0006	B01	60.00	00002-00001	6.60
631 (2)	01	OA1	G0006	B01	60.00	00003-00001	6.74
631 (2)	01	OA1	G0006	B01	60.00	00004-00001	5.87
631 (2)	01	OA1	G0006	B01	60.00	00005-00001	7.00
631 (2)	01	OA1	G0006	B01	60.00	00006-00001	7.96
631 (2)	01	OA1	G0006	B01	60.00	00007-00001	7.16
631 (2)	01	OA1	G0006	B01	60.00	00008-00001	7.69
631 (2)	01	OA1	G0006	B01	60.00	00009-00001	8.33
631 (2)	01	OA1	G0006	B01	60.00	00010-00001	6.84
640 (2)	01	OL1	G0006	B01	60.00	00003-00001	***12.08***
640 (2)	01	OL1	G0006	B01	60.00	00003-00002	***12.39***
640 (2)	01	OL1	G0006	B01	60.00	00003-00003	***11.84***
640 (2)	01	OL1	G0006	B01	60.00	00003-00004	***12.22***
640 (2)	01	OL1	G0006	B01	60.00	00003-00005	***12.19***
640 (2)	01	OL1	G0006	B01	60.00	00003-00006	***12.50***
640 (2)	01	OL1	G0006	B01	60.00	00003-00007	***12.26***
640 (2)	01	OL1	G0006	B01	60.00	00003-00008	***12.22***
640 (2)	01	OL1	G0006	B01	60.00	00003-00009	***12.40***
640 (2)	01	OL1	G0006	B01	60.00	00003-00010	***11.66***
640 (2)	01	OL1	G0006	B01	60.00	00004-00001	***11.70***
640 (2)	01	OL1	G0006	B01	60.00	00004-00002	***11.60***
640 (2)	01	OL1	G0006	B01	60.00	00004-00003	***11.66***
640 (2)	01	OL1	G0006	B01	60.00	00004-00004	***11.39***
640 (2)	01	OL1	G0006	B01	60.00	00004-00005	***11.26***
640 (2)	01	OL1	G0006	B01	60.00	00004-00006	11.83
640 (2)	01	OL1	G0006	B01	60.00	00004-00007	***11.82***
640 (2)	01	OL1	G0006	B01	60.00	00004-00008	***11.38***
640 (2)	01	OL1	G0006	B01	60.00	00004-00009	***12.10***
640 (2)	01	OL1	G0006	B01	60.00	00004-00010	***11.62***
644 (2)	01	OL1	G0006	B01	60.00	00008-00001	***12.62***
644 (2)	01	OL1	G0006	B01	60.00	00008-00002	***12.53***
644 (2)	01	OL1	G0006	B01	60.00	00008-00003	***11.90***
644 (2)	01	OL1	G0006	B01	60.00	00008-00004	***12.31***
644 (2)	01	OL1	G0006	B01	60.00	00008-00005	***12.43***
644 (2)	01	OL1	G0006	B01	60.00	00008-00006	***12.20***
644 (2)	01	OL1	G0006	B01	60.00	00008-00007	***11.93***
644 (2)	01	OL1	G0006	B01	60.00	00008-00008	***12.34***
644 (2)	01	OL1	G0006	B01	60.00	00008-00009	***12.15***
644 (2)	01	OL1	G0006	B01	60.00	00008-00010	***12.14***

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.

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Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
640 (2)	01	OL1	G0006	B01	60.00	00009-00001	***10.97***
640 (2)	01	OL1	G0006	B01	60.00	00009-00002	***11.70***
640 (2)	01	OL1	G0006	B01	60.00	00009-00003	***11.16***
640 (2)	01	OL1	G0006	B01	60.00	00009-00004	***11.60***
640 (2)	01	OL1	G0006	B01	60.00	00009-00005	***11.53***
640 (2)	01	OL1	G0006	B01	60.00	00009-00006	***10.81***
640 (2)	01	OL1	G0006	B01	60.00	00009-00007	***11.40***
640 (2)	01	OL1	G0006	B01	60.00	00009-00008	***11.38***
640 (2)	01	OL1	G0006	B01	60.00	00009-00009	***10.76***
640 (2)	01	OL1	G0006	B01	60.00	00009-00010	***11.38***
640 (2)	01	OL1	G0006	B01	60.00	00010-00001	***11.28***
640 (2)	01	OL1	G0006	B01	60.00	00010-00002	***11.15***
640 (2)	01	OL1	G0006	B01	60.00	00010-00003	***11.45***
640 (2)	01	OL1	G0006	B01	60.00	00010-00004	***11.10***
640 (2)	01	OL1	G0006	B01	60.00	00010-00005	***11.48***
640 (2)	01	OL1	G0006	B01	60.00	00010-00006	***11.27***
640 (2)	01	OL1	G0006	B01	60.00	00010-00007	***11.20***
640 (2)	01	OL1	G0006	B01	60.00	00010-00008	***11.04***
640 (2)	01	OL1	G0006	B01	60.00	00010-00009	***10.83***
640 (2)	01	OL1	G0006	B01	60.00	00010-00010	***11.37***
640 (2)	01	OL1	G0006	B01	60.00	00011-00001	***10.99***
640 (2)	01	OL1	G0006	B01	60.00	00011-00002	***11.16***
640 (2)	01	OL1	G0006	B01	60.00	00011-00003	***11.01***
640 (2)	01	OL1	G0006	B01	60.00	00011-00004	***11.53***
640 (2)	01	OL1	G0006	B01	60.00	00011-00005	***10.75***
640 (2)	01	OL1	G0006	B01	60.00	00011-00006	10.72
640 (2)	01	OL1	G0006	B01	60.00	00011-00007	***10.76***
640 (2)	01	OL1	G0006	B01	60.00	00011-00008	***11.25***
640 (2)	01	OL1	G0006	B01	60.00	00011-00009	***11.42***
640 (2)	01	OL1	G0006	B01	60.00	00011-00010	***11.26***
640 (2)	01	OL1	G0006	B01	60.00	00012-00001	***10.37***
640 (2)	01	OL1	G0006	B01	60.00	00012-00002	***10.27***
640 (2)	01	OL1	G0006	B01	60.00	00012-00003	***10.48***
640 (2)	01	OL1	G0006	B01	60.00	00012-00004	***10.44***
640 (2)	01	OL1	G0006	B01	60.00	00012-00005	***10.74***
640 (2)	01	OL1	G0006	B01	60.00	00012-00006	***10.57***
640 (2)	01	OL1	G0006	B01	60.00	00012-00007	***10.89***
640 (2)	01	OL1	G0006	B01	60.00	00012-00008	***10.09***
640 (2)	01	OL1	G0006	B01	60.00	00012-00009	***10.22***
640 (2)	01	OL1	G0006	B01	60.00	00012-00010	***10.73***

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Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
640 (2)	01	OL1	G0006	B01	60.00	00013-00001	***10.66***
640 (2)	01	OL1	G0006	B01	60.00	00013-00002	***10.50***
640 (2)	01	OL1	G0006	B01	60.00	00013-00003	***10.25***
640 (2)	01	OL1	G0006	B01	60.00	00013-00004	***10.29***
640 (2)	01	OL1	G0006	B01	60.00	00013-00005	***10.50***
640 (2)	01	OL1	G0006	B01	60.00	00013-00006	***10.32***
640 (2)	01	OL1	G0006	B01	60.00	00013-00007	***10.45***
640 (2)	01	OL1	G0006	B01	60.00	00013-00008	***10.03***
640 (2)	01	OL1	G0006	B01	60.00	00013-00009	***10.75***
640 (2)	01	OL1	G0006	B01	60.00	00013-00010	***10.43***
640 (2)	01	OL1	G0006	B01	60.00	00015-00001	***11.35***
640 (2)	01	OL1	G0006	B01	60.00	00015-00002	***11.40***
640 (2)	01	OL1	G0006	B01	60.00	00015-00003	***11.72***
640 (2)	01	OL1	G0006	B01	60.00	00015-00004	***11.57***
640 (2)	01	OL1	G0006	B01	60.00	00015-00005	***11.03***
640 (2)	01	OL1	G0006	B01	60.00	00015-00006	***11.70***
640 (2)	01	OL1	G0006	B01	60.00	00015-00007	***11.68***
640 (2)	01	OL1	G0006	B01	60.00	00015-00008	***11.79***
640 (2)	01	OL1	G0006	B01	60.00	00015-00009	***11.97***
640 (2)	01	OL1	G0006	B01	60.00	00015-00010	***11.53***
640 (2)	01	OL1	G0006	B01	60.00	00016-00001	***11.57***
640 (2)	01	OL1	G0006	B01	60.00	00016-00002	***11.84***
640 (2)	01	OL1	G0006	B01	60.00	00016-00003	***12.58***
640 (2)	01	OL1	G0006	B01	60.00	00016-00004	***11.73***
640 (2)	01	OL1	G0006	B01	60.00	00016-00005	***11.51***
640 (2)	01	OL1	G0006	B01	60.00	00016-00006	11.62
640 (2)	01	OL1	G0006	B01	60.00	00016-00007	***11.88***
640 (2)	01	OL1	G0006	B01	60.00	00016-00008	***11.95***
640 (2)	01	OL1	G0006	B01	60.00	00016-00009	***12.16***
640 (2)	01	OL1	G0006	B01	60.00	00016-00010	***12.07***
644 (2)	01	OL1	G0006	B01	60.00	00021-00001	***13.50***
644 (2)	01	OL1	G0006	B01	60.00	00021-00002	***13.38***
644 (2)	01	OL1	G0006	B01	60.00	00021-00003	***13.39***
644 (2)	01	OL1	G0006	B01	60.00	00021-00004	***12.66***
644 (2)	01	OL1	G0006	B01	60.00	00021-00005	***13.00***
644 (2)	01	OL1	G0006	B01	60.00	00021-00006	***13.26***
644 (2)	01	OL1	G0006	B01	60.00	00021-00007	***13.03***
644 (2)	01	OL1	G0006	B01	60.00	00021-00008	***13.59***
644 (2)	01	OL1	G0006	B01	60.00	00021-00009	***13.05***
644 (2)	01	OL1	G0006	B01	60.00	00021-00010	***13.51***

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Survey Package: R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
640 (2)	01	OL1	G0006	B01	60.00	00024-00001	***10.70***
640 (2)	01	OL1	G0006	B01	60.00	00024-00002	***10.72***
640 (2)	01	OL1	G0006	B01	60.00	00024-00003	***10.74***
640 (2)	01	OL1	G0006	B01	60.00	00024-00004	***10.98***
640 (2)	01	OL1	G0006	B01	60.00	00024-00005	***10.45***
640 (2)	01	OL1	G0006	B01	60.00	00024-00006	***10.85***
640 (2)	01	OL1	G0006	B01	60.00	00024-00007	***10.93***
640 (2)	01	OL1	G0006	B01	60.00	00024-00008	***11.02***
640 (2)	01	OL1	G0006	B01	60.00	00024-00009	***10.59***
640 (2)	01	OL1	G0006	B01	60.00	00024-00010	***11.38***
644 (2)	01	OL1	G0006	B01	60.00	00025-00001	***11.35***
644 (2)	01	OL1	G0006	B01	60.00	00025-00002	***12.23***
644 (2)	01	OL1	G0006	B01	60.00	00025-00003	***11.69***
644 (2)	01	OL1	G0006	B01	60.00	00025-00004	***11.82***
644 (2)	01	OL1	G0006	B01	60.00	00025-00005	***11.56***
644 (2)	01	OL1	G0006	B01	60.00	00025-00006	***11.95***
644 (2)	01	OL1	G0006	B01	60.00	00025-00007	***11.85***
644 (2)	01	OL1	G0006	B01	60.00	00025-00008	***11.69***
644 (2)	01	OL1	G0006	B01	60.00	00025-00009	***11.81***
644 (2)	01	OL1	G0006	B01	60.00	00025-00010	***11.47***
644 (2)	01	OL1	G0006	B01	60.00	00026-00001	***11.83***
644 (2)	01	OL1	G0006	B01	60.00	00026-00002	***12.48***
644 (2)	01	OL1	G0006	B01	60.00	00026-00003	***11.79***
644 (2)	01	OL1	G0006	B01	60.00	00026-00004	***11.88***
644 (2)	01	OL1	G0006	B01	60.00	00026-00005	***12.00***
644 (2)	01	OL1	G0006	B01	60.00	00026-00006	11.66
644 (2)	01	OL1	G0006	B01	60.00	00026-00007	***12.40***
644 (2)	01	OL1	G0006	B01	60.00	00026-00008	***11.77***
644 (2)	01	OL1	G0006	B01	60.00	00026-00009	***12.01***
644 (2)	01	OL1	G0006	B01	60.00	00026-00010	***11.80***
640 (2)	01	OL1	G0006	B01	60.00	00027-00001	***11.82***
640 (2)	01	OL1	G0006	B01	60.00	00027-00002	***10.74***
640 (2)	01	OL1	G0006	B01	60.00	00027-00003	***10.60***
640 (2)	01	OL1	G0006	B01	60.00	00027-00004	***10.41***
640 (2)	01	OL1	G0006	B01	60.00	00027-00005	***10.80***
640 (2)	01	OL1	G0006	B01	60.00	00027-00006	***11.08***
640 (2)	01	OL1	G0006	B01	60.00	00027-00007	***10.81***
640 (2)	01	OL1	G0006	B01	60.00	00027-00008	***11.06***
640 (2)	01	OL1	G0006	B01	60.00	00027-00009	***11.29***
640 (2)	01	OL1	G0006	B01	60.00	00027-00010	***10.69***

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Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
640 (2)	01	OL1	G0006	B01	60.00	00029-00001	***11.70***
640 (2)	01	OL1	G0006	B01	60.00	00029-00002	***12.14***
640 (2)	01	OL1	G0006	B01	60.00	00029-00003	***12.28***
640 (2)	01	OL1	G0006	B01	60.00	00029-00004	***11.48***
640 (2)	01	OL1	G0006	B01	60.00	00029-00005	***12.02***
640 (2)	01	OL1	G0006	B01	60.00	00029-00006	***11.89***
640 (2)	01	OL1	G0006	B01	60.00	00029-00007	***11.78***
640 (2)	01	OL1	G0006	B01	60.00	00029-00008	***11.51***
640 (2)	01	OL1	G0006	B01	60.00	00029-00009	***11.52***
640 (2)	01	OL1	G0006	B01	60.00	00029-00010	***11.53***
640 (2)	01	OL1	G0006	B01	60.00	00032-00001	***11.69***
640 (2)	01	OL1	G0006	B01	60.00	00032-00002	***11.64***
640 (2)	01	OL1	G0006	B01	60.00	00032-00003	***11.78***
640 (2)	01	OL1	G0006	B01	60.00	00032-00004	***11.63***
640 (2)	01	OL1	G0006	B01	60.00	00032-00005	***11.87***
640 (2)	01	OL1	G0006	B01	60.00	00032-00006	***11.78***
640 (2)	01	OL1	G0006	B01	60.00	00032-00007	***11.23***
640 (2)	01	OL1	G0006	B01	60.00	00032-00008	***11.95***
640 (2)	01	OL1	G0006	B01	60.00	00032-00009	***11.48***
640 (2)	01	OL1	G0006	B01	60.00	00032-00010	***11.60***
640 (2)	01	OL1	G0006	B01	60.00	00033-00001	***11.26***
640 (2)	01	OL1	G0006	B01	60.00	00033-00002	***10.45***
640 (2)	01	OL1	G0006	B01	60.00	00033-00003	***11.22***
640 (2)	01	OL1	G0006	B01	60.00	00033-00004	***11.10***
640 (2)	01	OL1	G0006	B01	60.00	00033-00005	***10.91***
640 (2)	01	OL1	G0006	B01	60.00	00033-00006	10.51
640 (2)	01	OL1	G0006	B01	60.00	00033-00007	***10.43***
640 (2)	01	OL1	G0006	B01	60.00	00033-00008	***11.31***
640 (2)	01	OL1	G0006	B01	60.00	00033-00009	***11.22***
640 (2)	01	OL1	G0006	B01	60.00	00033-00010	***11.63***
644 (2)	01	OL1	G0006	B01	60.00	00038-00001	***11.92***
644 (2)	01	OL1	G0006	B01	60.00	00038-00002	***12.06***
644 (2)	01	OL1	G0006	B01	60.00	00038-00003	***12.06***
644 (2)	01	OL1	G0006	B01	60.00	00038-00004	***11.85***
644 (2)	01	OL1	G0006	B01	60.00	00038-00005	***11.73***
644 (2)	01	OL1	G0006	B01	60.00	00038-00006	***12.03***
644 (2)	01	OL1	G0006	B01	60.00	00038-00007	***11.81***
644 (2)	01	OL1	G0006	B01	60.00	00038-00008	***11.71***
644 (2)	01	OL1	G0006	B01	60.00	00038-00009	***11.70***
644 (2)	01	OL1	G0006	B01	60.00	00038-00010	***11.75***

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Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
644 (2)	01	OL1	G0006	B01	60.00	00040-00001	***12.04***
644 (2)	01	OL1	G0006	B01	60.00	00040-00002	***11.53***
644 (2)	01	OL1	G0006	B01	60.00	00040-00003	***11.85***
644 (2)	01	OL1	G0006	B01	60.00	00040-00004	***11.69***
644 (2)	01	OL1	G0006	B01	60.00	00040-00005	***11.90***
644 (2)	01	OL1	G0006	B01	60.00	00040-00006	***11.97***
644 (2)	01	OL1	G0006	B01	60.00	00040-00007	***11.97***
644 (2)	01	OL1	G0006	B01	60.00	00040-00008	***12.00***
644 (2)	01	OL1	G0006	B01	60.00	00040-00009	***12.00***
644 (2)	01	OL1	G0006	B01	60.00	00040-00010	***11.94***
640 (2)	01	OL1	G0006	B01	60.00	00041-00001	***11.37***
640 (2)	01	OL1	G0006	B01	60.00	00041-00002	***11.50***
640 (2)	01	OL1	G0006	B01	60.00	00041-00003	***11.26***
640 (2)	01	OL1	G0006	B01	60.00	00041-00004	***11.16***
640 (2)	01	OL1	G0006	B01	60.00	00041-00005	***11.38***
640 (2)	01	OL1	G0006	B01	60.00	00041-00006	***11.10***
640 (2)	01	OL1	G0006	B01	60.00	00041-00007	***11.45***
640 (2)	01	OL1	G0006	B01	60.00	00041-00008	***11.31***
640 (2)	01	OL1	G0006	B01	60.00	00041-00009	***11.29***
640 (2)	01	OL1	G0006	B01	60.00	00041-00010	***11.32***
640 (2)	01	OL1	G0006	B01	60.00	00043-00001	***11.94***
640 (2)	01	OL1	G0006	B01	60.00	00043-00002	***11.84***
640 (2)	01	OL1	G0006	B01	60.00	00043-00003	***11.50***
640 (2)	01	OL1	G0006	B01	60.00	00043-00004	***12.41***
640 (2)	01	OL1	G0006	B01	60.00	00043-00005	***11.42***
640 (2)	01	OL1	G0006	B01	60.00	00043-00006	11.72
640 (2)	01	OL1	G0006	B01	60.00	00043-00007	***11.81***
640 (2)	01	OL1	G0006	B01	60.00	00043-00008	***11.61***
640 (2)	01	OL1	G0006	B01	60.00	00043-00009	***11.28***
640 (2)	01	OL1	G0006	B01	60.00	00043-00010	***12.00***
640 (2)	01	OL1	G0006	B01	60.00	00046-00001	***11.25***
640 (2)	01	OL1	G0006	B01	60.00	00046-00002	***11.38***
640 (2)	01	OL1	G0006	B01	60.00	00046-00003	***11.30***
640 (2)	01	OL1	G0006	B01	60.00	00046-00004	***11.79***
640 (2)	01	OL1	G0006	B01	60.00	00046-00005	***11.97***
640 (2)	01	OL1	G0006	B01	60.00	00046-00006	***11.12***
640 (2)	01	OL1	G0006	B01	60.00	00046-00007	***11.27***
640 (2)	01	OL1	G0006	B01	60.00	00046-00008	***11.57***
640 (2)	01	OL1	G0006	B01	60.00	00046-00009	***11.32***
640 (2)	01	OL1	G0006	B01	60.00	00046-00010	***11.17***

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Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
644 (2)	01	OL1	G0006	B01	60.00	00051-00001	***11.33***
644 (2)	01	OL1	G0006	B01	60.00	00051-00002	***11.51***
644 (2)	01	OL1	G0006	B01	60.00	00051-00003	***11.66***
644 (2)	01	OL1	G0006	B01	60.00	00051-00004	***11.51***
644 (2)	01	OL1	G0006	B01	60.00	00051-00005	***11.93***
644 (2)	01	OL1	G0006	B01	60.00	00051-00006	***11.89***
644 (2)	01	OL1	G0006	B01	60.00	00051-00007	***11.94***
644 (2)	01	OL1	G0006	B01	60.00	00051-00008	***11.49***
644 (2)	01	OL1	G0006	B01	60.00	00051-00009	***11.28***
644 (2)	01	OL1	G0006	B01	60.00	00051-00010	***12.24***
644 (2)	01	OL1	G0006	B01	60.00	00053-00001	***12.03***
644 (2)	01	OL1	G0006	B01	60.00	00053-00002	***11.81***
644 (2)	01	OL1	G0006	B01	60.00	00053-00003	***12.14***
644 (2)	01	OL1	G0006	B01	60.00	00053-00004	***11.97***
644 (2)	01	OL1	G0006	B01	60.00	00053-00005	***11.82***
644 (2)	01	OL1	G0006	B01	60.00	00053-00006	***11.91***
644 (2)	01	OL1	G0006	B01	60.00	00053-00007	***11.70***
644 (2)	01	OL1	G0006	B01	60.00	00053-00008	***12.45***
644 (2)	01	OL1	G0006	B01	60.00	00053-00009	***11.79***
644 (2)	01	OL1	G0006	B01	60.00	00053-00010	***12.41***
644 (2)	01	OL1	G0006	B01	60.00	00055-00001	***12.01***
644 (2)	01	OL1	G0006	B01	60.00	00055-00002	***11.91***
644 (2)	01	OL1	G0006	B01	60.00	00055-00003	***11.60***
644 (2)	01	OL1	G0006	B01	60.00	00055-00004	***11.82***
644 (2)	01	OL1	G0006	B01	60.00	00055-00005	***11.97***
644 (2)	01	OL1	G0006	B01	60.00	00055-00006	12.09
644 (2)	01	OL1	G0006	B01	60.00	00055-00007	***11.89***
644 (2)	01	OL1	G0006	B01	60.00	00055-00008	***12.00***
644 (2)	01	OL1	G0006	B01	60.00	00055-00009	***11.94***
644 (2)	01	OL1	G0006	B01	60.00	00055-00010	***12.06***
644 (2)	01	OL1	G0006	B01	60.00	00056-00001	***12.65***
644 (2)	01	OL1	G0006	B01	60.00	00056-00002	***13.18***
644 (2)	01	OL1	G0006	B01	60.00	00056-00003	***13.16***
644 (2)	01	OL1	G0006	B01	60.00	00056-00004	***12.41***
644 (2)	01	OL1	G0006	B01	60.00	00056-00005	***12.00***
644 (2)	01	OL1	G0006	B01	60.00	00056-00006	***12.62***
644 (2)	01	OL1	G0006	B01	60.00	00056-00007	***12.69***
644 (2)	01	OL1	G0006	B01	60.00	00056-00008	***12.45***
644 (2)	01	OL1	G0006	B01	60.00	00056-00009	***12.51***
644 (2)	01	OL1	G0006	B01	60.00	00056-00010	***12.84***

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Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
640 (2)	01	OL1	G0006	B01	60.00	00059-00001	***11.59***
640 (2)	01	OL1	G0006	B01	60.00	00059-00002	***11.32***
640 (2)	01	OL1	G0006	B01	60.00	00059-00003	***11.52***
640 (2)	01	OL1	G0006	B01	60.00	00059-00004	***11.30***
640 (2)	01	OL1	G0006	B01	60.00	00059-00005	***11.35***
640 (2)	01	OL1	G0006	B01	60.00	00059-00006	***11.38***
640 (2)	01	OL1	G0006	B01	60.00	00059-00007	***11.23***
640 (2)	01	OL1	G0006	B01	60.00	00059-00008	***11.57***
640 (2)	01	OL1	G0006	B01	60.00	00059-00009	***11.38***
640 (2)	01	OL1	G0006	B01	60.00	00059-00010	***10.72***
644 (2)	01	OL1	G0006	B01	60.00	00061-00001	***11.87***
644 (2)	01	OL1	G0006	B01	60.00	00061-00002	***12.29***
644 (2)	01	OL1	G0006	B01	60.00	00061-00003	***11.41***
644 (2)	01	OL1	G0006	B01	60.00	00061-00004	***11.78***
644 (2)	01	OL1	G0006	B01	60.00	00061-00005	***12.32***
644 (2)	01	OL1	G0006	B01	60.00	00061-00006	***12.08***
644 (2)	01	OL1	G0006	B01	60.00	00061-00007	***11.84***
644 (2)	01	OL1	G0006	B01	60.00	00061-00008	***12.10***
644 (2)	01	OL1	G0006	B01	60.00	00061-00009	***12.10***
644 (2)	01	OL1	G0006	B01	60.00	00061-00010	***12.09***
644 (2)	01	OL1	G0006	B01	60.00	00062-00001	***12.29***
644 (2)	01	OL1	G0006	B01	60.00	00062-00002	***12.55***
644 (2)	01	OL1	G0006	B01	60.00	00062-00003	***12.80***
644 (2)	01	OL1	G0006	B01	60.00	00062-00004	***12.31***
644 (2)	01	OL1	G0006	B01	60.00	00062-00005	***12.17***
644 (2)	01	OL1	G0006	B01	60.00	00062-00006	12.23
644 (2)	01	OL1	G0006	B01	60.00	00062-00007	***12.84***
644 (2)	01	OL1	G0006	B01	60.00	00062-00008	***12.15***
644 (2)	01	OL1	G0006	B01	60.00	00062-00009	***12.53***
644 (2)	01	OL1	G0006	B01	60.00	00062-00010	***12.10***
631 (2)	01	OL2	G0006	B01	60.00	00001-00001	8.10
631 (2)	01	OL2	G0006	B01	60.00	00002-00001	7.69
631 (2)	01	OL2	G0006	B01	60.00	00003-00001	7.40
631 (2)	01	OL2	G0006	B01	60.00	00004-00001	6.93
631 (2)	01	OL2	G0006	B01	60.00	00005-00001	7.41
631 (2)	01	OL2	G0006	B01	60.00	00006-00001	7.57
631 (2)	01	OL2	G0006	B01	60.00	00007-00001	7.42
631 (2)	01	OL2	G0006	B01	60.00	00008-00001	7.02
631 (2)	01	OL2	G0006	B01	60.00	00009-00001	6.65
631 (2)	01	OL2	G0006	B01	60.00	00010-00001	7.19

NOTES: Exposure rates reported in net μR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 μR/hr.
320 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

04/10/98

Exposure Rate Measurements

Survey Package : R2200 ENVIRONS
Background

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
2/23/98	631 (2)	095349	4/15/98	44-2	PR126918	5/12/98	GLL9768
				CALIBRATION DATES VERIFIED AS ACCEPTABLE			
2/27/98	640 (2)	080498	4/8/98	44-2	PR075119	4/8/98	CWI5440
				CALIBRATION DATES VERIFIED AS ACCEPTABLE			
3/2/98	644 (2)	080498	4/8/98	44-2	PR075119	4/8/98	CWI5440
				CALIBRATION DATES VERIFIED AS ACCEPTABLE			

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 65

04/10/98 OUTPUT BATCH SN = 776

Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OA1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY261	H2O00190	1,230.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.37	0.02	0.03
				K-40	15.80	0.19	1.08
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY262	H2O00174	1,100.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.50	0.03	0.04
				K-40	20.00	0.22	1.38
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY263	H2O00191	1,010.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.37	0.02	0.04
				K-40	21.00	0.25	1.43
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OA1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY264	BIO00029	886.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .04	0.04	0.00
				Cs-137	.55	0.02	0.10
				K-40	29.20	0.36	1.97
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00006-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY265	BIO00025	878.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .04	0.04	0.00
				Cs-137	.91	0.03	0.07
				K-40	24.40	0.33	1.68
				Mn-54	< .04	0.04	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00007-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY266	BIO00030	849.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.77	0.04	0.06
				K-40	24.60	0.21	1.67
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OA1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00008-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY267	H2O00175	1,030.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .04	0.04	0.00
				Cs-137	.32	0.02	0.14
				K-40	24.70	0.31	1.69
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00009-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY268	H2O00192	1,160.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.25	0.01	0.13
				K-40	17.40	0.20	1.19
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00010-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY269	H2O00193	1,120.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.10	0.03	0.02
				K-40	23.70	0.20	1.59
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OA1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY598	H2O00206	1,120.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.55	0.03	0.04
				K-40	21.70	0.21	1.47
				Mn-54	< .03	0.03	0.00

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00033-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY100	H2O00186	1,183.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.37	0.03	0.03
				K-40	23.00	0.21	1.55
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00061-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY101	H2O00169	1,126.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.38	0.03	0.03
				K-40	19.50	0.23	1.35
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00051-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY102	H2O00187	1,045.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.51	0.03	0.04
				K-40	25.40	0.24	1.71
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00059-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY103	H2O00172	1,137.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.12	0.03	0.02
				K-40	22.70	0.30	1.56
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00021-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY104	H2O00182	1,042.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.41	0.03	0.03
				K-40	20.70	0.19	1.40
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY175	H2O00188	1,110.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.10	0.02	0.03
				K-40	28.00	0.31	1.88
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00008-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY176	H2O00181	1,150.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.30	0.02	0.03
				K-40	18.50	0.20	1.26
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00009-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY177	H2O00166	993.40	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .04	0.04	0.00
				Cs-137	.47	0.04	0.04
				K-40	23.10	0.25	1.59
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00011-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY178	BIO00024	922.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.47	0.03	0.04
				K-40	22.90	0.26	1.58
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00012-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY179	H2O00180	967.70	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.19	0.02	0.02
				K-40	25.00	0.22	1.69
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00043-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY180	H2O00171	1,103.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.50	0.03	0.04
				K-40	23.20	0.23	1.58
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00015-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY181	H2O00167	1,177.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.29	0.03	0.03
				K-40	18.60	0.25	1.29
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00016-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY182	H2O00189	1,219.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.34	0.01	0.04
				K-40	16.10	0.16	1.10
				Mn-54	< .01	0.01	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00055-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY383	H2O00196	1,060.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.51	0.03	0.04
				K-40	22.10	0.21	1.50
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00041-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY384	H2O00178	995.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.35	0.04	0.03
				K-40	22.60	0.32	1.56
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00027-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY385	H2O00180	1,030.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.29	0.02	0.03
				K-40	21.80	0.22	1.50
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00013-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY386	H2O00197	1,030.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.29	0.03	0.03
				K-40	24.20	0.22	1.63
				Mn-54	< .03	0.03	0.00

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Survey Package R2200 ENVIRONS
Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00026-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY387	BIO00027	921.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.55	0.03	0.04
				K-40	22.60	0.33	1.57
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00025-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY388	H2O00198	993.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.49	0.03	0.04
				K-40	23.10	0.24	1.56
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00024-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY389	H2O00181	1,070.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.46	0.02	0.36
				K-40	22.70	0.25	1.56
				Mn-54	< .03	0.03	0.00

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Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00038-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY390	H2O00199	1,040.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.46	0.02	0.04
				K-40	24.00	0.26	1.62
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00053-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY391	H2O00182	1,120.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.36	0.03	0.03
				K-40	19.10	0.27	1.32
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00029-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY583	H2O00200	1,130.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.43	0.02	0.03
				K-40	21.90	0.20	1.48
				Mn-54	< .03	0.03	0.00

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Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00046-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY585	H2O00183	1,280.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.31	0.02	0.03
				K-40	21.90	0.24	1.49
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00032-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY587	H2O00201	1,240.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.35	0.02	0.09
				K-40	25.90	0.21	1.73
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00010-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY593	H2O00186	1,000.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .04	0.04	0.00
				Cs-137	.43	0.04	0.04
				K-40	30.50	0.31	2.06
				Mn-54	< .04	0.04	0.00

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Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00062-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY595	H2O00204	1,200.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.23	0.02	0.02
				K-40	25.70	0.24	1.72
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY597	H2O00187	1,000.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.44	0.03	0.04
				K-40	23.70	0.33	1.63
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00056-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY601	H2O00207	1.04	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.50	0.03	0.04
				K-40	25.20	0.21	1.70
				Mn-54	< .02	0.02	0.00

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Background

UNIT : 01 SURFACE : OL1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00040-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY602	H2O00189	1,070.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.50	0.03	0.04
				K-40	24.00	0.23	1.64
				Mn-54	< .02	0.02	0.00

UNIT : 01 SURFACE : OL2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00008-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY097	H2000168	1,114.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.45	0.03	0.04
				K-40	20.80	0.27	1.43
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00009-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY098	H2000183	1,114.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.20	0.02	0.02
				K-40	21.80	0.22	1.47
				Mn-54	< .03	0.03	0.00

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Background

UNIT : 01 SURFACE : OL2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00010-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY099	H2O00184	1,135.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.36	0.03	0.03
				K-40	23.30	0.22	1.57
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY377	H2O00176	1,030.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	1.40	0.04	0.10
				K-40	19.70	0.29	1.37
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY378	BIO00031	936.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.54	0.02	0.04
				K-40	26.40	0.26	1.78
				Mn-54	< .03	0.03	0.00

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UNIT : 01 SURFACE : OL2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY379	H2O00177	1,140.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.09	0.02	0.02
				K-40	24.90	0.31	1.69
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY380	H2O00194	1,080.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.36	0.03	0.03
				K-40	25.70	0.23	1.72
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00005-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY381	BIO00026	915.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .04	0.04	0.00
				Cs-137	.62	0.03	0.05
				K-40	26.10	0.24	1.79
				Mn-54	< .03	0.03	0.00

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UNIT : 01 SURFACE : OL2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00006-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY382	H2O00195	1,010.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.36	0.03	0.03
				K-40	24.00	0.24	1.62
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Open Land Areas
SAMPLE LOCATOR: 00007-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY590	H2O00185	1,130.00	10800	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.39	0.03	0.03
				K-40	28.50	0.25	1.92
				Mn-54	< .03	0.03	0.00

UNIT : 02 SURFACE : OS1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY701	BIO00032	911.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.06	0.02	0.01
				K-40	22.70	0.22	1.54
				Mn-54	< .03	0.03	0.00

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Background

UNIT : 02 SURFACE : OS1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY705	H2O00130	1,150.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.09	0.02	0.02
				K-40	22.70	0.19	1.53
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY712	H2O00177	1.14	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.10	0.03	0.02
				K-40	20.20	0.20	1.37
				Mn-54	< .03	0.03	0.00

UNIT : 02 SURFACE : OS2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY703	H2O00176	1,160.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.04	0.03	0.02
				K-40	22.60	0.21	1.52
				Mn-54	< .03	0.03	0.00

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UNIT : 02 SURFACE : OS2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY707	H2O00162	1,210.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.09	0.03	0.02
				K-40	20.80	0.20	1.42
				Mn-54	< .03	0.03	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY709	H2O00158	1,160.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	.11	0.03	0.02
				K-40	21.80	0.22	1.49
				Mn-54	< .03	0.03	0.00

UNIT : 03 SURFACE : OS1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: DAMI1-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY715	H2O00178	1,450.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.06	0.01	0.01
				K-40	17.20	0.16	1.16
				Mn-54	< .02	0.02	0.00

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Background

UNIT : 03 SURFACE : OS1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: DAMI2-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY717	H2O00165	1,480.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.05	0.02	0.01
				K-40	16.50	0.19	1.13
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: DAMI3-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY721	H2O00129	1.35	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.06	0.01	0.01
				K-40	16.70	0.14	1.13
				Mn-54	< .02	0.02	0.00

UNIT : 03 SURFACE : OS2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: DAMI1-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY723	ENV00217	1.65	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.04	0.02	0.01
				K-40	19.10	0.14	1.45
				Mn-54	< .02	0.02	0.00

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UNIT : 03 SURFACE : OS2 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: DAMI2-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY725	ENV00214	1.52	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.04	0.02	0.01
				K-40	17.50	0.16	1.20
				Mn-54	< .02	0.02	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Soil & Sediment Samples
SAMPLE LOCATOR: DAMI3-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY727	H2000209	1,442.00	10800	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	.06	0.01	0.04
				K-40	17.80	0.17	1.20
				Mn-54	< .02	0.02	0.00

UNIT : 04 SURFACE : OW1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Water Samples
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYW01	H2O00068	1,000.00	5000	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	< .02	0.02	0.00
				K-40	< .20	0.20	0.00
				Mn-54	< .02	0.02	0.00

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UNIT : 05 SURFACE : OW1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Water Samples
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYW37	H2O00329	1,000.00	46800	Co-57	< .01	0.01	0.00
				Co-60	< .01	0.01	0.00
				Cs-134	< .01	0.01	0.00
				Cs-137	< .01	0.01	0.00
				K-40	< .01	0.01	0.00
				Mn-54	< .01	0.01	0.00

UNIT : 06 SURFACE : OW1 REASON : B01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Water Samples
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYW23	H2O00126	1,000.00	6000	Co-57	< .02	0.02	0.00
				Co-60	< .02	0.02	0.00
				Cs-134	< .02	0.02	0.00
				Cs-137	< .02	0.02	0.00
				K-40	< .26	0.26	0.00
				Mn-54	< .02	0.02	0.00

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04/28/98

Liquid Tritium Analysis Sample Results

Survey Package : R2200 ENVIRONS
Background

RESULTS LISTING - SORTED BY SURFACE CODE

SAMPLE ID	SAMPLE TYPE	UNIT	SURF	REASN	MSRMNT LOCATION	MDA	TRITIUM ACTIVITY
D74	Environmental Water Sample	05	OW1	B01	00001	6.94	-3.75
W01	Environmental water sample	04	OW1	B01	00001	1.65	1.52
W23	Environmental water sample	06	OW1	B01	00001	5.01	2.71

NOTES: Activity reported in net dpm/ml.
Underlined values exceed the associated MDA.
Bold values exceed 75 dpm/ml,
Italic values exceed 100 dpm/ml.

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DBACORR Documentation
:aProgDBACORR:F_0530.FSL
OUTPUT BATCH SN = 227

LIQUID SCINTILLATION COUNTER CALIBRATION SUMMARY

04/10/98

WATER SAMPLE ANALYSIS - TRITIUM ACTIVITY

Survey Package : R2200 ENVIRONS
Background

SURVEYDATE	INSTRUMENT	MODEL	S/N	CAL DUE	LAB TECHNICIAN
2/1/98	Packard	2750	416221	6/16/98	LDT

CALIBRATION DATE VERIFIED AS ACCEPTABLE

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DATA ANALYSIS ERROR LOG

04/10/98 OUTPUT BATCH SN = 776

PACKAGE R2200 ENVIRONS
Background

QUERY REMARKS	No direct beta results were located No direct alpha results were located No smear sample results were located No tritium smear results were located
PROBLEMS	NONE

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04/10/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :R2300 ENVIRONS

PACKAGE DESCRIPTION SFPI Substation Slab

SURVEY AREA DESCRIPTION
SFPI Substation Slab

GENERAL HISTORICAL INFORMATION (Operational history, etc.)
A concrete slab will be installed just west of the North Transformers within the Protected Area. The area has a general area dose rate of about 30 microR/hr. The slab dimensions are 14' x 44'.

SUMMARY OF CHARACTERIZATION ACTIVITIES

(1) An approximate 100% gamma scan was performed using a NaI(Tl) detector with 10 second count times. The gamma scanning was extended about 5 ft beyond the proposed concrete slab footprint. No elevated counts were observed given the higher than normal background.

(2) Eight sampling locations were established in a more or less equal distribution over the 14 x 22 ft pad footprint.

(3) Each of the eight 12" depth soil samples consisted of two 6" segments (0-6" and 6-12") for a total 16 samples.

(4) At each of the sample locations, a 1 meter gamma exposure rate measurement was performed.

CHARACTERIZATION SURVEY RESULTS

(1) For the eight 0-6" and 6-12" profiled soil sample locations, the gamma spectroscopic analyses found two 0-6" depth samples with Co-60 concentrations of 0.14 and 0.11 pCi/g. The Cs-137 concentrations ranged from 0.33 to 0.81 pCi/g for the upper profile and 0.00 to 0.23 pCi/g for the lower.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

04/09/98 OUTPUT BATCH SN = 736

PACKAGE R2300 ENVIRONS
SFPI Substation Slab

UNIT(S)
01 - Pad area

SURFACE(S)
OA2 (Surface Soil Sample @ 0"-6" Depth)
OB3 (Subsurface Soil Sample @ 6"-12" Depth)
OL1 (Open Land Areas)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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DURATEK

Maine Yankee Atomic Power Plant Site Characterization

04/09/98

Exposure Rate Measurements

Survey Package R2300 ENVIRONS
SFPI Substation Slab

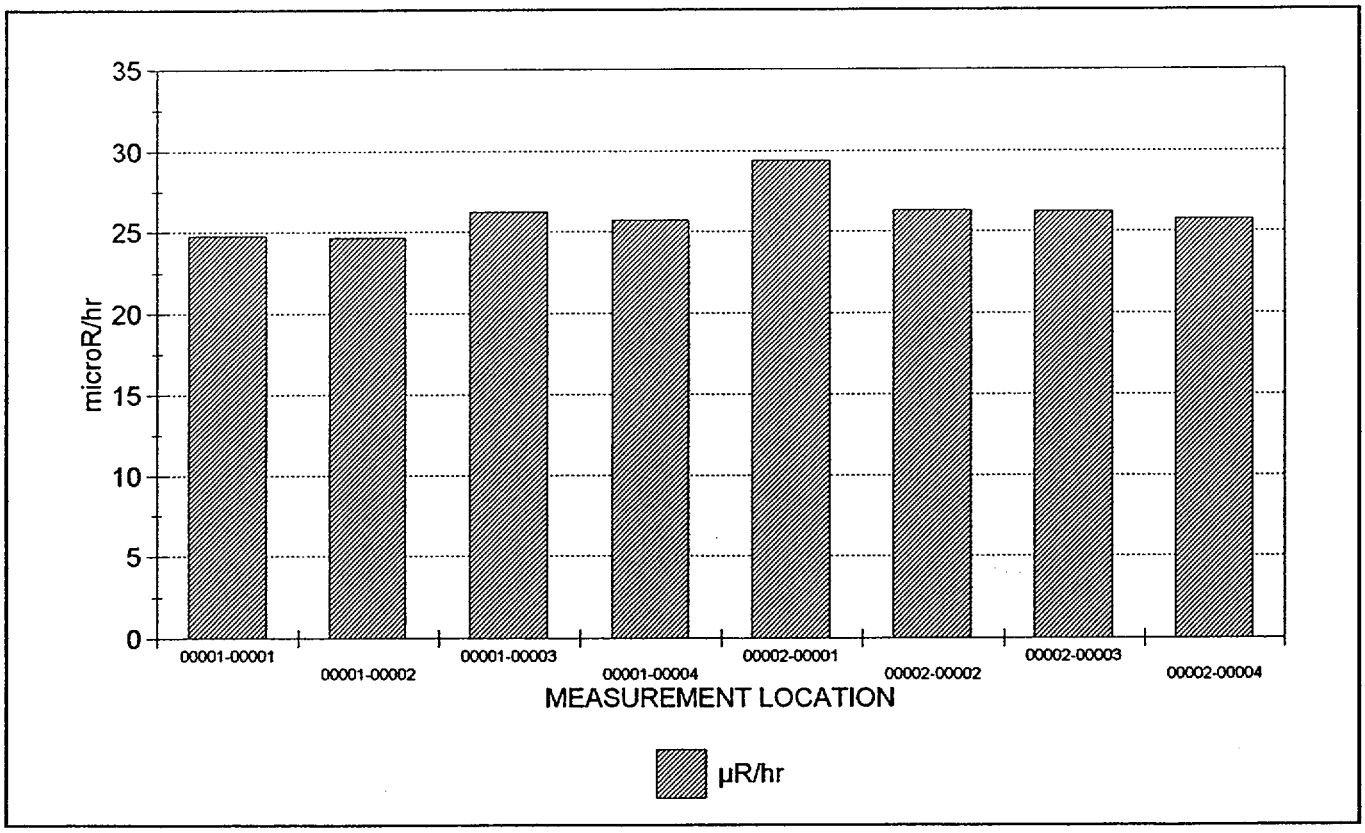
STATISTICAL SUMMARY

	µR/hr
Mean	26.14
Maximum	29.40
Minimum	24.68
Standard Deviation	1.46

Samples Reported	8
Samples Prescribed	8

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



8 RESULTS ARE GRAPHED

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DBACORR Documentation
:aProgDBACORR:F_0221.FSL
OUTPUT BATCH SN = 736

JLM

Survey Package: R2300 ENVIRONS
SFPI Substation Slab

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
1 (2)	01	OL1	G0006	C01	60.00	00001-00001	***24.77***
1 (2)	01	OL1	G0006	C01	60.00	00001-00002	***24.68***
1 (2)	01	OL1	G0006	C01	60.00	00001-00003	***26.25***
1 (2)	01	OL1	G0006	C01	60.00	00001-00004	***25.73***
1 (2)	01	OL1	G0006	C01	60.00	00002-00001	***29.40***
1 (2)	01	OL1	G0006	C01	60.00	00002-00002	***26.32***
1 (2)	01	OL1	G0006	C01	60.00	00002-00003	***26.22***
1 (2)	01	OL1	G0006	C01	60.00	00002-00004	***25.78***

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
8 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

04/09/98

Exposure Rate Measurements

Survey Package : R2300 ENVIRONS
SFPI Substation Slab

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
11/10/97	1 (2)	126185	3/20/98	44-2	PR095085	4/19/98	KFS5185

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 16

04/09/98

OUTPUT BATCH SN = 736

Survey Package R2300 ENVIRONS
SFPI Substation Slab

UNIT : 01 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1011	H2O00249	1,170.00	1200	Co-57	< .03	0.03	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.47	0.09	0.08
				K-40	21.00	0.85	2.02
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1013	H2O00281	1,220.00	1200	Co-57	< .08	0.08	0.00
				Co-60	.14	0.07	0.04
				Cs-134	< .09	0.09	0.00
				Cs-137	.55	0.06	0.07
				K-40	23.10	0.69	2.02
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1015	H2O00283	1,230.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.35	0.07	0.06
				K-40	21.70	0.47	1.91
				Mn-54	< .05	0.05	0.00

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Survey Package R2300 ENVIRONS
SFPI Substation Slab

UNIT : 01 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1017	H2O00284	1,160.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.47	0.08	0.07
				K-40	24.50	0.82	2.15
				Mn-54	< .10	0.10	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1019	ENV00248	1,600.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.81	0.08	0.09
				K-40	22.20	0.43	1.88
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00006-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1021	H2O00285	1,240.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.36	0.06	0.06
				K-40	21.90	0.51	1.92
				Mn-54	< .09	0.09	0.00

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Survey Package R2300 ENVIRONS
SFPI Substation Slab

UNIT : 01 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00007-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1023	H2O00287	1,320.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.64	0.08	0.08
				K-40	22.00	0.53	1.90
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00008-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1025	H2O00288	1,400.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.53	0.08	0.08
				K-40	20.40	0.45	1.77
				Mn-54	< .08	0.08	0.00

UNIT : 01 SURFACE : OB3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1012	H2O00266	1,170.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.21	0.09	0.06
				K-40	19.10	0.74	1.89
				Mn-54	< .10	0.10	0.00

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Survey Package R2300 ENVIRONS
SFPI Substation Slab

UNIT : 01 SURFACE : OB3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1014	H2O00268	1,450.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.09	0.05	0.03
				K-40	21.00	0.55	1.89
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1016	H2O00269	1,330.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.21	0.08	0.06
				K-40	21.10	0.58	1.94
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00004-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1018	ENV00251	1,510.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.06	0.07	0.04
				K-40	22.90	0.66	2.19
				Mn-54	< .10	0.10	0.00

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GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 16

04/09/98 OUTPUT BATCH SN = 736

Survey Package R2300 ENVIRONS
SFPI Substation Slab

UNIT : 01 SURFACE : OB3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00005-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1020	H2O00270	1,460.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.23	0.07	0.05
				K-40	20.20	0.57	1.84
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00006-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1022	ENV00252	1,560.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.10	0.06	0.04
				K-40	21.90	0.58	2.10
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00007-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1024	ENV00253	1,530.00	1200	Co-57	< .09	0.09	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	< .09	0.09	0.00
				K-40	23.50	0.59	2.22
				Mn-54	< .09	0.09	0.00

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GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 16

04/09/98

OUTPUT BATCH SN = 736

Survey Package R2300 ENVIRONS
SFPI Substation Slab

UNIT : 01 SURFACE : OB3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00008-00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1027	H2O00289	1,260.00	1200	Co-57	< .08	0.08	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.12	0.08	0.05
				K-40	25.30	0.52	2.14
				Mn-54	< .10	0.10	0.00

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DBACORR Documentation
:aProgDBACORR:R_GSPEC.RSL

06/05/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :R2400 ENVIRONS

PACKAGE DESCRIPTION

SURVEY AREA DESCRIPTION

Duplicates with IT hazardous material samples taken at various locations per hazardous materials survey packages.

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

General information is provided in the individual hazardous materials survey packages.

SUMMARY OF CHARACTERIZATION ACTIVITIES

(1) Three duplicate surface and three duplicate subsurface soil samples were obtained from three paved surface locations near the hazardous materials handling area (plant south) using Geoprobe equipment under Package H01. No groundwater was encountered to obtain a groundwater sample. The code 01OW1 in Package R2400 refers to Geoprobe water samples that were unobtainable because of a lack of groundwater at these Geoprobe locations.

(2) Two duplicate surface and two duplicate subsurface soil samples were from one paved and one grassy location to the east of the Main Transformer 1B area using Geoprobe equipment under Package H03. No groundwater was encountered at the paved location and insufficient groundwater was encountered at the grassy location to obtain a groundwater sample.

(3) One duplicate composited surface soil sample from three locations around the Transformer 5X pad was obtained under Package H03.

(4) One duplicate composited surface soil sample from three locations around the Transformers 6A, B and C pole was obtained under Package H03.

(5) One water sample from the Main Transformer sump was obtained under Package H03.

(6) One water sample for the North Transformer sump was obtained under Package H03.

(7) One duplicate composited soil sample from around the electrical components (bushings) located in the stockyard were obtained under Package H11.

(8) One duplicate composited soil sample from around the transformer located in the stockyard was obtained under Package H11.

(9) Seven duplicate surface and seven duplicate subsurface soil samples were obtained from the Construction Debris Landfill and Ball Field using Geoprobe equipment under Package H13. Insufficient groundwater was encountered to collect any groundwater samples, but one slurry sample was obtained.

(10) Two duplicate surface and two duplicate subsurface soil samples were obtained from Bailey Point using Geoprobe equipment under Package H14. Insufficient groundwater was encountered to collect any groundwater samples, but one slurry sample was obtained.

(11) Two duplicate surface and two duplicate subsurface soil samples were obtained from the Dry Cask Storage Area using Geoprobe equipment under Package H21. Insufficient groundwater was encountered to collect any groundwater samples.

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(12) One duplicate surface and subsurface soil sample from the Bailey House old leach field (backyard) and a subsurface soil sample from the Bailey House new leach field (front yard) were obtained using Geoprobe equipment under Package H22. Insufficient groundwater was encountered to collect any groundwater samples.

(13) One duplicate composited surface soil sample from a total of three locations in the 115 kV switchyard were obtained under Package H23.

(14) One duplicate composited surface soil sample from each of the three hazardous materials background locations were obtained using Geoprobe equipment under Package H24.

(15) One duplicate groundwater sample at the hazardous materials background well location in Wiscasset was obtained under Package H24.

CHARACTERIZATION SURVEY RESULTS

(1) For the 45 duplicate soil samples, two duplicate subsurface slurry samples, and one groundwater background sample taken with the hazardous materials samples, the gamma spectroscopic results showed no Co-60 and most sample results were either below the detection sensitivity of the system or at background concentrations for Cs-137. One composite sample collected around the Transformer 6A, B, and C power pole gave a Cs-137 result of 0.97 pCi/g, and another sample, which was collected around the electrical bushings stored in the Maintenance Yard, gave a Cs-137 result of 1.62 pCi/g based on a 44 gram sample.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

04/10/98

OUTPUT BATCH SN = 529

PACKAGE R2400 ENVIRONS

UNIT(S)	SURFACE(S)
01 - Survey Package H01 Duplicate Samples	OA1 (Geoprobe samples) OB1 (Geoprobe samples)
02 - Survey Package H03 Duplicate Samples	OA1 (Geoprobe sample) OA2 (Composite sample from transformer 5 area) OA3 (Composite sample from transformers 6A, B, C area) OA4 (Near surface (about 2') geoprobe sample from grassy area) OB1 (Geoprobe sample) OB4 (Geoprobe sample from grassy area) OW2 (Sample from main transformer sump) OW3 (Sample from north transformer sump)
03 - Survey Package H11 Duplicate Samples	OA1 (Composite sample from electrical bushings area) OA2 (Composite sample from transformer area)
04 - Survey Package H13 Duplicate Samples	OA1 (Geoprobe samples) OB1 (Geoprobe samples)
05 - Survey Package H14 Duplicate Samples	OA1 (Geoprobe samples) OB1 (Geoprobe samples) OW1 (Geoprobe slurry sample)
06 - Survey Package H21 Duplicate Samples	OA1 (Geoprobe samples) OB1 (Geoprobe samples) OW1 (Geoprobe slurry sample)
07 - Survey Package H22 Duplicate Samples	OA1 (Geoprobe sample (from old leach field)) OB1 (Geoprobe samples from old and new leach fields)
08 - Survey Package H23 Duplicate Samples	OA1 (Composite sample)
09 - Survey Package H24 Duplicate Samples	OA1 (Geoprobe samples) OW1 (Groundwater well samples)

REASON(S) CHARACTERIZATION SURVEY (C01)

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 47

04/09/98

OUTPUT BATCH SN = 663

Survey Package R2400 ENVIRONS

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY927	HDS00005	520.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	22.10	0.32	1.92
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY929	HDS00006	459.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	19.50	0.47	1.76
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY931	HDS00007	419.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	21.70	0.44	1.95
				Mn-54	< .05	0.05	0.00

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UNIT : 01 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY928	HDS00009	361.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	23.10	0.59	1.93
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY930	HDS00010	504.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	19.50	0.51	1.57
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY932	HDS00011	518.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	17.90	0.38	1.45
				Mn-54	< .05	0.05	0.00

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UNIT : 02 SURFACE : 0W3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Code description not located
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYW10	H2O00082	1,000.00	1200	Co-57	< .02	0.02	0.00
				Co-60	< .01	0.01	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	< .03	0.03	0.00
				K-40	< .36	0.36	0.00
				Mn-54	< .02	0.02	0.00

UNIT : 02 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY935	HDS00012	470.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	20.00	0.48	1.63
				Mn-54	< .05	0.05	0.00

UNIT : 02 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY968	HDS00030	512.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	20.10	0.44	1.60
				Mn-54	< .05	0.05	0.00

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UNIT : 02 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY942	HDS00020	245.00	3600	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.97	0.08	0.10
				K-40	27.00	0.61	2.54
				Mn-54	< .08	0.08	0.00

UNIT : 02 SURFACE : OA4 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY933	HDS00008	515.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	21.00	0.35	1.84
				Mn-54	< .05	0.05	0.00

UNIT : 02 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY936	HDS00013	525.00	3600	Co-57	< .03	0.03	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .04	0.05	0.00
				K-40	20.70	0.45	1.64
				Mn-54	< .05	0.05	0.00

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UNIT : 02 SURFACE : OB4 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY934	HDS00009	500.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .04	0.04	0.00
				K-40	18.60	0.46	1.67
				Mn-54	< .04	0.05	0.00

UNIT : 02 SURFACE : OW2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Water Samples
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYW11	H2O00079	1,000.00	1200	Co-57	< .03	0.03	0.00
				Co-60	< .03	0.03	0.00
				Cs-134	< .03	0.03	0.00
				Cs-137	< .03	0.03	0.00
				K-40	< .34	0.34	0.00
				Mn-54	< .03	0.03	0.00

UNIT : 03 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY941	FAL00027	44.00	28800	Co-57	< .28	0.28	0.00
				Co-60	< .38	0.38	0.00
				Cs-134	< .38	0.38	0.00
				Cs-137	1.62	0.31	0.27
				K-40	24.10	3.66	3.71
				Mn-54	< .36	0.36	0.00

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UNIT : 03 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY940	HDS00026	188.00	5000	Co-57	< .06	0.06	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .08	0.08	0.00
				K-40	25.50	0.74	2.24
				Mn-54	< .08	0.08	0.00

UNIT : 04 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY951	HDS00019	221.00	3600	Co-57	< .07	0.07	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	< .09	0.09	0.00
				K-40	25.40	0.76	2.47
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY955	HDS00023	201.00	5000	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	26.20	0.81	2.26
				Mn-54	< .09	0.09	0.00

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UNIT : 04 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY957	HDS00021	390.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	21.90	0.50	1.98
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY959	HDS00022	428.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	22.10	0.45	1.98
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY961	HDS00024	181.00	5000	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.07	0.08	0.05
				K-40	24.00	0.72	2.31
				Mn-54	< .09	0.09	0.00

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UNIT : 04 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00006

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY963	HDS00025	285.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	24.70	0.66	2.31
				Mn-54	< .08	0.08	0.00

UNIT : 04 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY952	HDS00017	262.00	3600	Co-57	< .06	0.06	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	< .08	0.08	0.00
				K-40	28.10	0.98	2.64
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY956	HDS00022	371.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	25.30	0.50	2.05
				Mn-54	< .07	0.07	0.00

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UNIT : 04 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY958	HDS00024	383.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.40	0.66	1.87
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY960	HDS00025	428.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .05	0.05	0.00
				K-40	24.50	0.67	1.96
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY962	HDS00027	421.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	21.90	0.56	1.79
				Mn-54	< .06	0.06	0.00

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UNIT : 04 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00006

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY964	HDS00026	478.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	22.10	0.43	1.94
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00007

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY966	HDS00029	308.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	23.70	0.69	2.04
				Mn-54	< .08	0.08	0.00

UNIT : 05 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY918	HDS00002	309.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.24	0.07	0.06
				K-40	21.70	0.75	1.92
				Mn-54	< .08	0.08	0.00

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UNIT : 05 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY922	HDS00006	214.00	3600	Co-57	< .06	0.06	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.35	0.09	0.07
				K-40	22.20	0.81	2.15
				Mn-54	< .09	0.09	0.00

UNIT : 05 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY921	HDS00005	503.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	20.30	0.46	1.62
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY923	HDS00007	357.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	26.80	0.87	2.20
				Mn-54	< .07	0.07	0.00

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UNIT : 05 SURFACE : OW1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Water Samples
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY924	FAL00043	37.90	28800	Co-57	< .35	0.35	0.00
				Co-60	< .42	0.42	0.00
				Cs-134	< .45	0.45	0.00
				Cs-137	< .43	0.43	0.00
				K-40	29.20	3.68	3.98
				Mn-54	< .44	0.44	0.00

UNIT : 06 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY946	HDS00014	603.00	3600	Co-57	< .03	0.03	0.00
				Co-60	< .04	0.04	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .04	0.04	0.00
				K-40	20.10	0.31	1.73
				Mn-54	< .04	0.04	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY949	HDS00018	563.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	19.30	0.46	1.52
				Mn-54	< .05	0.05	0.00

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Survey Package R2400 ENVIRONS

UNIT : 06 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00000

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY947	HDS00017	410.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.00	0.47	1.80
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY950	HDS00002	399.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.10	0.04	0.03
				K-40	21.50	0.57	1.96
				Mn-54	< .06	0.06	0.00

UNIT : 06 SURFACE : OW1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Water Samples
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY948	HDS00015	454.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	19.90	0.51	1.79
				Mn-54	< .05	0.05	0.00

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Survey Package R2400 ENVIRONS

UNIT : 07 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY925	HDS00003	247.00	3600	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.58	0.07	0.08
				K-40	21.20	0.94	2.13
				Mn-54	< .08	0.08	0.00

UNIT : 07 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY926	HDS00004	511.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .04	0.04	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .04	0.04	0.00
				K-40	17.20	0.44	1.55
				Mn-54	< .04	0.04	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY945	HDS00016	432.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	23.60	0.52	1.89
				Mn-54	< .06	0.06	0.00

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Survey Package R2400 ENVIRONS

UNIT : 08 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY967	HDS00027	536.00	3600	Co-57	< .03	0.03	0.00
				Co-60	< .04	0.04	0.00
				Cs-134	< .05	0.05	0.00
				Cs-137	< .05	0.05	0.00
				K-40	19.80	0.39	1.74
				Mn-54	< .05	0.05	0.00

UNIT : 09 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY937	HDS00010	352.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.21	0.05	0.04
				K-40	18.60	0.58	1.77
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY938	HDS00012	319.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.22	0.05	0.04
				K-40	16.40	0.46	1.62
				Mn-54	< .07	0.07	0.00

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Survey Package R2400 ENVIRONS

UNIT : 09 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY939	HDS00015	390.00	3600	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	23.30	0.60	1.91
				Mn-54	< .06	0.06	0.00

UNIT : 09 SURFACE : OW1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Water Samples
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYW21	H2O00100	1,000.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	< .61	0.61	0.00
				Mn-54	< .06	0.06	0.00

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04/09/98

WATER SAMPLE ANALYSIS - TRITIUM ACTIVITY

Survey Package : R2400 ENVIRONS

RESULTS LISTING - SORTED BY SURFACE CODE

SAMPLE ID	SAMPLE TYPE	UNIT	SURF	REASN	MSRMNT LOCATION	MDA	TRITIUM ACTIVITY
W10	Environmental water sample	02	OW3	C01	00001	1.89	1.33
W11	Environmental water sample	02	OW2	C01	00001	2.13	1.87
W21	Environmental water sample	09	OW1	C01	00001	3.64	1.68

NOTES: Activity reported in net dpm/ml.
Underlined values exceed the associated MDA.
Bold values exceed 75 dpm/ml,
Italic values exceed 100 dpm/ml.

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DBACORR Documentation
:aProgDBACORR:F_0530.FSL
OUTPUT BATCH SN = 697

JLM

LIQUID SCINTILLATION COUNTER CALIBRATION SUMMARY

04/09/98

Survey Package : R2400 ENVIRONS

SURVEYDATE	INSTRUMENT	MODEL	S/N	CAL DUE	LAB TECHNICIAN
2/1/98	Packard	2750	416221	6/16/98	LDT
				CALIBRATION DATE VERIFIED AS ACCEPTABLE	

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06/05/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :R2500 ENVIRONS

PACKAGE DESCRIPTION
Follow-up Surveys

SURVEY AREA DESCRIPTION
Drive - Over Elevated Areas

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

Drive-over gamma surveys using a plastic scintillator detector identified 24 locations exhibiting elevated counts relative to localized background. Only one of these locations, Bailey Point (R0500), has the operational history that might result in residual radioactive material being present. The objective of this package was to evaluate each of the 24 elevated locations based on guidance provided in NUREG 5849 and MARSSIM.

Generally, the counts/sec recorded at the other 23 locations did not exceed twice localized background, and the size of these areas, as well as their unlikelihood of being affected, suggest that the elevated readings are from near surface natural granite materials present throughout the site. Each of these elevated areas was flagged to indicate a representative location of the elevated readings.

The correlation is:
R0500 Area # 1 = #3 (Fig. 3);
R0600 Areas # 1, 2, and 3 = # 18, 19 and 20 (Fig. 3);
R0700 Areas # 1, 2, 3, 4, 5, 6, 7, and 8 = # 13, 14, 15, 17, 16, 21, 22, and 23 (Fig. 3);
R0800 Areas # 1, 2, and 3 = # 4, 5, and 6 (Fig. 3);
R1000 Areas # 1 and 2 = 1 and 2 (Fig. 3);
R1300 Areas 1 and 2 = 8 and 7 (Fig. 3);
R1600 Area #1 = # 24 (Fig. 3); and
R1800 Areas # 1, 2, 3, and 4 = # 9, 10, 11, and 12 (Fig. 3).

SUMMARY OF CHARACTERIZATION ACTIVITIES

(1) Each of the 24 flagged, elevated locations identified by the drive-over gamma scans using a plastic scintillator detector was marked into an approximate 10 x 10 meter area. An approximate 100% gamma scan of these areas was manually performed using a NaI detector with a 2 second count time. None of these manual scans identified any locations within the 10 meter areas that had higher count rates than those marked by the flags.

(2) A biased 6" depth surface soil sample was obtained from each location marked with a flag.

(3) Four systematic 6" depth surface soil samples were obtained from each 10 x 10 meter area. These sample locations were equidistant from the corners to the center of each area. At the Bailey Point elevated areas, an additional two surface and one subsurface soil samples were taken.

(4) At each of the 5 sample locations per elevated area, a 1 meter gamma exposure rate (uR/hr) measurement was performed using a 1 minute count time.

(5) At each flagged location, a 1-meter qualitative MicroSpec *in situ* gamma spectroscopy measurement was obtained using a 15 minute count time.

(6) At the Baily Point elevated area, two biased surface and one biased subsurface soil samples were taken for gamma spectroscopy.

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CHARACTERIZATION SURVEY RESULTS

(1) The findings and conclusions of these follow-up investigations of the 24 elevated locations identified by the drive-over gamma scanning surveys are provided in the applicable R package.

REFERENCES (Documents, Interviews)

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SUMMARY OF SURVEY UNIT(S)

06/05/98 OUTPUT BATCH SN = 254

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
01 - Open Land Areas - Bailey Point	OA1 (Elevated area # 1 from package R0500, Surface Soil Sample @ 0"-6" Depth) OB1 (Elevated area # 1 from package R0500, Subsurface Soil Sample @ 6-12" Depth)
02 - Open Land Areas - Ball field	OA1 (Elevated area # 1 from package R0600, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R0600, Surface Soil Sample @ 0"-6" Depth) OA3 (Elevated area # 3 from package R0600, Surface Soil Sample @ 0"-6" Depth)
03 - Open Land Areas - Construction Debris Landfill	OA1 (Elevated area # 1 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA3 (Elevated area # 3 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA4 (Elevated area # 4 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA5 (Elevated area # 5 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA6 (Elevated area # 6 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA7 (Elevated area # 7 from package R0700.) OA8 (Elevated area # 8 from package R0700, Surface Soil Sample @ 0"-6" Depth)
04 - Open Land Areas - Administration and Parking Area	OA1 (Elevated area # 1 from package R0800, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R0800, Surface Soil Sample @ 0"-6" Depth) OA3 (Elevated area # 3 from package R0800, Surface Soil Sample @ 0"-6" Depth)
05 - Open Land Areas - Foxbird Island	OA1 (Elevated area # 1 from package R1000, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R1000, Surface Soil Sample @ 0"-6" Depth)
06 - Open Land Areas - Dry Cask Storage Area	OA1 (Elevated area # 1 from package R1300, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R1300, Surface Soil Sample @ 0"-6" Depth)
07 - Open Land Areas West of Bailey Cove	OA1 (Elevated area # 1 from package R1600, Surface Soil Sample @ 0"-6" Depth)

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SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 254

UNIT(S)

08 - Open Land Areas - Bailey House Area

SURFACE(S)

OA1 (Elevated area # 1 from package R1800, Surface Soil Sample @ 0"-6" Depth)
OA2 (Elevated area # 2 from package R1800, Surface Soil Sample @ 0"-6" Depth)
OA3 (Elevated area # 3 from package R1800, Surface Soil Sample @ 0"-6" Depth)
OA4 (Elevated area # 4 from package R1800, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 255

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
01 - Open Land Areas - Bailey Point	OA1 (Elevated area # 1 from package R0500, Surface Soil Sample @ 0"-6" Depth) OB1 (Elevated area # 1 from package R0500, Subsurface Soil Sample @ 6-12" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

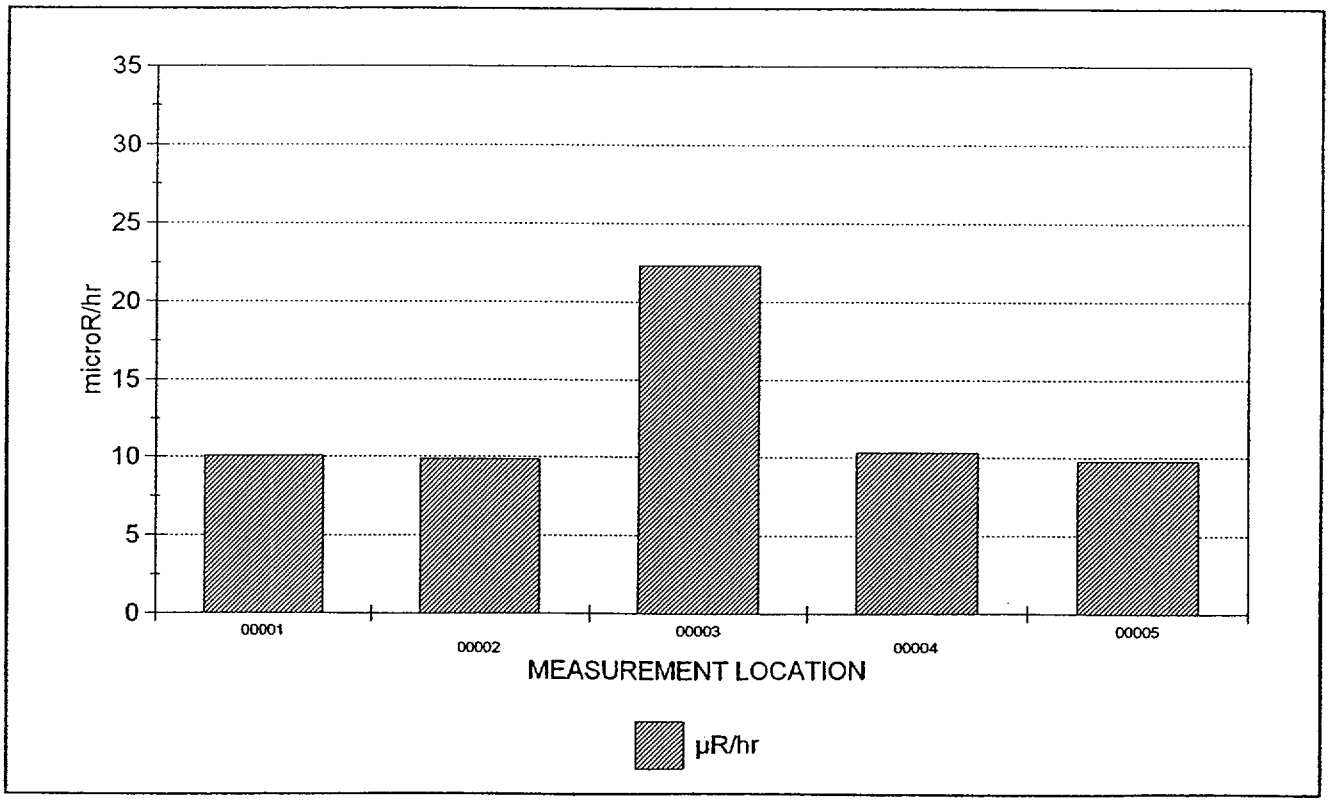
STATISTICAL SUMMARY

	µR/hr
Mean	12.44
Maximum	22.31
Minimum	9.75
Standard Deviation	5.52

Samples Reported	5
Samples Prescribed	5

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



5 RESULTS ARE GRAPHED

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JLM

DBACORR Documentation
:aProgDBACORR:F_0221.FSL
OUTPUT BATCH SN = 255

Survey Package : R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
643 (2)	01	OA1	G0006	C01	60.00	00001	***10.06***
643 (2)	01	OA1	G0006	C01	60.00	00002	9.82
643 (2)	01	OA1	G0006	C01	60.00	00003	***22.31***
643 (2)	01	OA1	G0006	C01	60.00	00004	***10.28***
643 (2)	01	OA1	G0006	C01	60.00	00005	9.75

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
5 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98

Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
3/2/98	643 (2)	126201	4/15/98	44-2	129300	5/12/98	BSM0490

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 8

06/05/98 OUTPUT BATCH SN = 255

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1207	H2O00231	1,172.00	2	Co-57	< 96.10	96.10	0.00
				Co-60	33600.00	496.00	,460.00
				Cs-134	< 171.00	171.00	0.00
				Cs-137	< 216.00	216.00	0.00
				K-40	< 2020.00	,020.00	0.00
				Mn-54	< 266.00	266.00	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00007

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1208	H2O00300	1,160.00	10800	Co-57	< .03	0.03	0.00
				Co-60	8.06	0.03	0.34
				Cs-134	< .05	0.05	0.00
				Cs-137	.21	0.03	0.03
				K-40	19.90	0.23	1.35
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1209	H2O00232	1,230.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.17	0.06	0.05
				K-40	20.00	0.31	1.79
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1210	H2O00218	1,070.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.19	0.07	0.05
				K-40	20.30	0.55	1.99
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1211	H2O00233	1,220.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.19	0.06	0.05
				K-40	20.30	0.49	1.82
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1212	H2O00219	1,490.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.08	0.05	0.04
				K-40	19.50	0.57	1.78
				Mn-54	< .05	0.05	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 01 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00006

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1213	BIO00030	734.00	10800	Co-57	< .05	0.05	0.00
				Co-60	47.50	0.13	2.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.09	0.09	0.06
				K-40	29.20	0.65	2.04
				Mn-54	< .14	0.14	0.00

UNIT : 01 SURFACE : OB1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Subsurface Soil Sample @ 6"-12" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1219	ENV00290	1,620.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.04	0.06	0.03
				K-40	21.40	0.52	2.04
				Mn-54	< .06	0.06	0.00

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SUMMARY OF SURVEY UNIT(S)

06/05/98 OUTPUT BATCH SN = 256

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
02 - Open Land Areas - Ball field	OA1 (Elevated area # 1 from package R0600, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R0600, Surface Soil Sample @ 0"-6" Depth) OA3 (Elevated area # 3 from package R0600, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

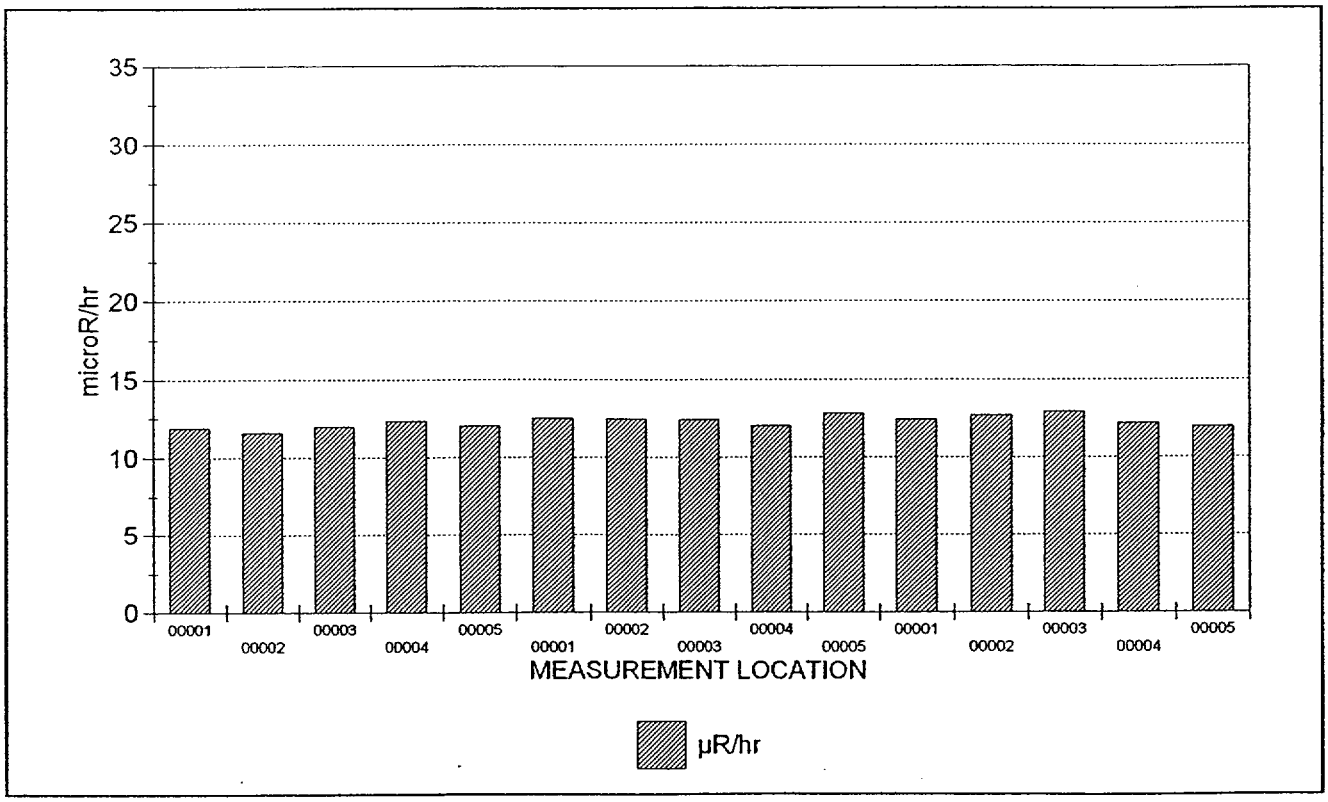
STATISTICAL SUMMARY

	µR/hr
Mean	12.26
Maximum	12.90
Minimum	11.54
Standard Deviation	0.38

Samples Reported	15
Samples Prescribed	15

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



15 RESULTS ARE GRAPHED

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Survey Package: R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
633 (2)	02	OA1	G0006	C01	60.00	00001	***11.89***
633 (2)	02	OA1	G0006	C01	60.00	00002	***11.54***
633 (2)	02	OA1	G0006	C01	60.00	00003	***11.97***
633 (2)	02	OA1	G0006	C01	60.00	00004	***12.32***
633 (2)	02	OA1	G0006	C01	60.00	00005	***11.98***
633 (2)	02	OA2	G0006	C01	60.00	00001	***12.48***
633 (2)	02	OA2	G0006	C01	60.00	00002	***12.45***
633 (2)	02	OA2	G0006	C01	60.00	00003	***12.40***
633 (2)	02	OA2	G0006	C01	60.00	00004	***12.00***
633 (2)	02	OA2	G0006	C01	60.00	00005	***12.80***
633 (2)	02	OA3	G0006	C01	60.00	00001	***12.40***
633 (2)	02	OA3	G0006	C01	60.00	00002	***12.66***
633 (2)	02	OA3	G0006	C01	60.00	00003	***12.90***
633 (2)	02	OA3	G0006	C01	60.00	00004	***12.17***
633 (2)	02	OA3	G0006	C01	60.00	00005	***11.93***

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
15 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98

Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
2/24/98	633 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 15

06/05/98 OUTPUT BATCH SN = 256

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 02 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1090	ENV00228	1,500.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	24.90	0.48	2.09
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1091	H2O00213	1,480.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	24.40	0.66	2.12
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1092	H2O00228	1,350.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.90	0.61	1.96
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 02 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1093	ENV00230	1,870.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	21.70	0.53	2.01
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1094	ENV00229	1,970.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	19.50	0.40	1.63
				Mn-54	< .05	0.05	0.00

UNIT : 02 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1095	H2O00214	1,360.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.05	0.07	0.04
				K-40	20.70	0.75	1.92
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 02 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1096	H2O00229	1,330.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.08	0.07	0.04
				K-40	21.60	0.52	1.87
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1097	H2O00215	1,130.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.22	0.08	0.06
				K-40	20.00	0.78	1.97
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1098	H2O00216	1,200.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.18	0.07	0.05
				K-40	21.40	0.61	2.02
				Mn-54	< .08	0.08	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 02 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1099	H2O00230	1,150.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.29	0.06	0.05
				K-40	19.50	0.77	1.82
				Mn-54	< .07	0.07	0.00

UNIT : 02 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1100	ENV00232	1,690.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	23.80	0.64	2.21
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1101	ENV00231	1,580.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	25.10	0.55	2.09
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 02 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1102	ENV00233	1,720.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.70	0.58	2.12
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1103	ENV00232	1,770.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .06	0.06	0.00
				K-40	24.80	0.57	2.04
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1104	H2O00220	1,470.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .08	0.08	0.00
				K-40	18.40	0.55	1.71
				Mn-54	< .06	0.06	0.00

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SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 257

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
03 - Open Land Areas - Construction Debris Landfill	OA1 (Elevated area # 1 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA3 (Elevated area # 3 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA4 (Elevated area # 4 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA5 (Elevated area # 5 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA6 (Elevated area # 6 from package R0700, Surface Soil Sample @ 0"-6" Depth) OA7 (Elevated area # 7 from package R0700.) OA8 (Elevated area # 8 from package R0700, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

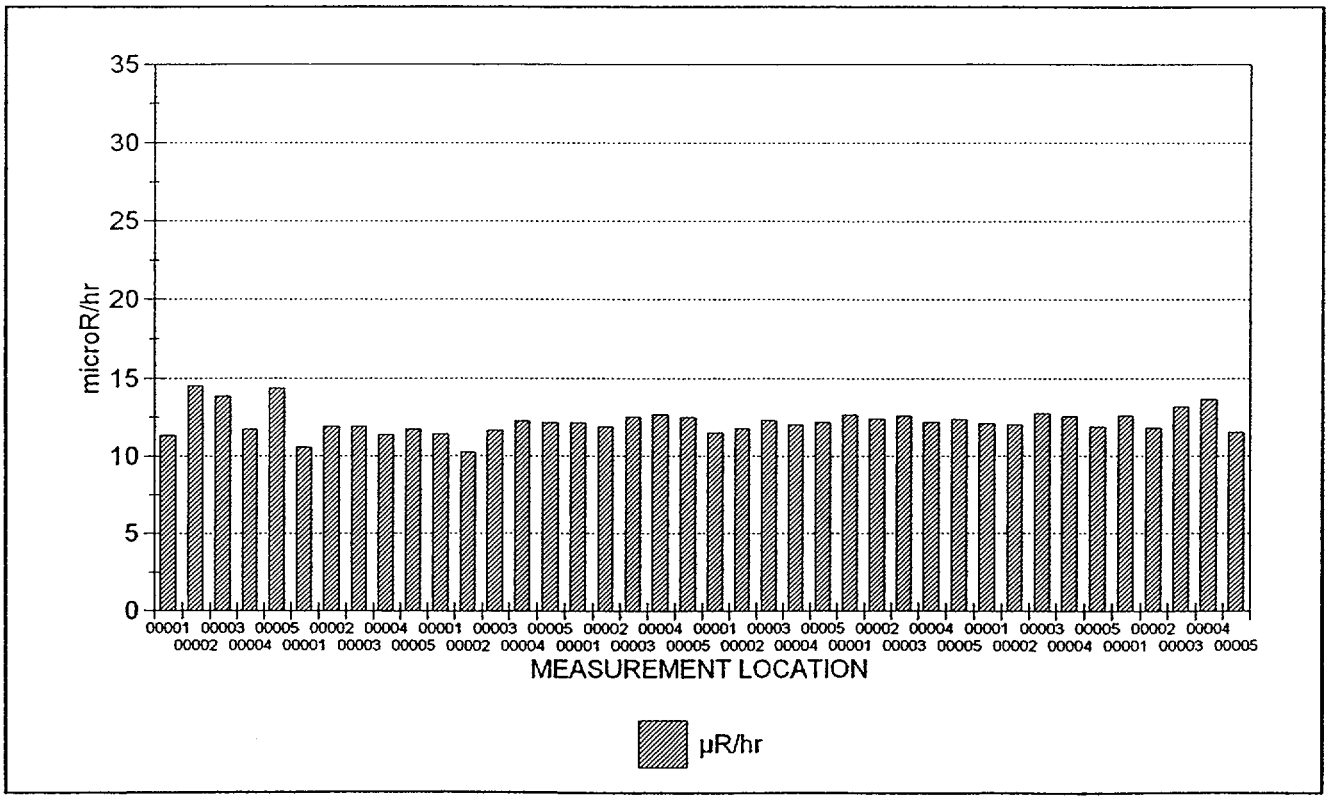
STATISTICAL SUMMARY

	µR/hr
Mean	12.19
Maximum	14.51
Minimum	10.20
Standard Deviation	0.86

Samples Reported	40
Samples Prescribed	40

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



40 RESULTS ARE GRAPHED

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Version 3.0.8 - 4/3/98

DBACORR Documentation
:aProgDBACORR:F_0221.FSL
OUTPUT BATCH SN = 257

JLM

DURATEK

Maine Yankee Atomic Power Plant Site Characterization

06/05/98 Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
639 (2)	03	OA1	G0006	C01	60.00	00001	***11.27***
639 (2)	03	OA1	G0006	C01	60.00	00002	***14.51***
639 (2)	03	OA1	G0006	C01	60.00	00003	***13.83***
639 (2)	03	OA1	G0006	C01	60.00	00004	***11.67***
639 (2)	03	OA1	G0006	C01	60.00	00005	***14.35***
639 (2)	03	OA2	G0006	C01	60.00	00001	***10.55***
639 (2)	03	OA2	G0006	C01	60.00	00002	***11.87***
639 (2)	03	OA2	G0006	C01	60.00	00003	***11.86***
639 (2)	03	OA2	G0006	C01	60.00	00004	***11.31***
639 (2)	03	OA2	G0006	C01	60.00	00005	***11.67***
639 (2)	03	OA3	G0006	C01	60.00	00001	***11.37***
639 (2)	03	OA3	G0006	C01	60.00	00002	***10.20***
639 (2)	03	OA3	G0006	C01	60.00	00003	***11.61***
639 (2)	03	OA3	G0006	C01	60.00	00004	***12.22***
639 (2)	03	OA3	G0006	C01	60.00	00005	***12.12***
639 (2)	03	OA4	G0006	C01	60.00	00001	***12.10***
639 (2)	03	OA4	G0006	C01	60.00	00002	***11.84***
639 (2)	03	OA4	G0006	C01	60.00	00003	***12.51***
639 (2)	03	OA4	G0006	C01	60.00	00004	***12.67***
639 (2)	03	OA4	G0006	C01	60.00	00005	***12.48***
639 (2)	03	OA5	G0006	C01	60.00	00001	***11.46***
639 (2)	03	OA5	G0006	C01	60.00	00002	***11.73***
639 (2)	03	OA5	G0006	C01	60.00	00003	***12.28***
639 (2)	03	OA5	G0006	C01	60.00	00004	***11.98***
639 (2)	03	OA5	G0006	C01	60.00	00005	***12.17***
639 (2)	03	OA6	G0006	C01	60.00	00001	12.68
639 (2)	03	OA6	G0006	C01	60.00	00002	***12.39***
639 (2)	03	OA6	G0006	C01	60.00	00003	***12.60***
639 (2)	03	OA6	G0006	C01	60.00	00004	***12.16***
639 (2)	03	OA6	G0006	C01	60.00	00005	***12.33***
639 (2)	03	OA7	G0006	C01	60.00	00001	***12.06***
639 (2)	03	OA7	G0006	C01	60.00	00002	***11.99***
639 (2)	03	OA7	G0006	C01	60.00	00003	***12.74***
639 (2)	03	OA7	G0006	C01	60.00	00004	***12.54***
639 (2)	03	OA7	G0006	C01	60.00	00005	***11.84***
639 (2)	03	OA8	G0006	C01	60.00	00001	***12.58***
639 (2)	03	OA8	G0006	C01	60.00	00002	***11.75***
639 (2)	03	OA8	G0006	C01	60.00	00003	***13.16***
639 (2)	03	OA8	G0006	C01	60.00	00004	***13.65***
639 (2)	03	OA8	G0006	C01	60.00	00005	***11.48***

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
40 results are listed.

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DURATEK

Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98

Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
2/26/98	639 (2)	098620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 40

06/05/98 OUTPUT BATCH SN = 257

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1185	H2O00260	1,120.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	20.20	0.65	1.86
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1186	ENV00243	1,510.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	27.60	0.63	2.53
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1188	ENV00244	1,560.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	26.60	0.78	2.47
				Mn-54	< .08	0.08	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1189	H2O00261	1,160.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	21.70	0.57	1.94
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1190	H2O00245	1,450.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .08	0.08	0.00
				K-40	26.20	0.55	2.24
				Mn-54	< .08	0.08	0.00

UNIT : 03 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1180	H2O00241	1,050.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .08	0.08	0.00
				K-40	17.00	0.74	1.79
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1181	H2O00257	1,160.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .09	0.09	0.00
				K-40	26.90	0.82	2.31
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1182	H2O00243	1,190.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	21.00	0.70	2.00
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1183	H2O00259	1,100.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .09	0.09	0.00
				K-40	24.40	0.67	2.16
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1184	H2O00244	1,470.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	23.60	0.60	2.07
				Mn-54	< .07	0.07	0.00

UNIT : 03 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1174	H2O00272	1,190.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .08	0.08	0.00
				K-40	24.80	0.53	2.13
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1175	H2O00258	1,300.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.06	0.07	0.04
				K-40	23.10	0.65	2.09
				Mn-54	< .08	0.08	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1176	H2O00277	1,190.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	22.50	0.53	2.08
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1177	H2O00274	1,110.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	23.80	0.71	2.12
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1178	H2O00276	1,050.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .09	0.09	0.00
				K-40	23.60	0.83	2.26
				Mn-54	< .09	0.09	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA4 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1122	H2O00230	1,370.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	22.60	0.67	2.04
				Mn-54	< .06	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1123	H2O00244	1,330.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	26.20	0.64	2.19
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1124	H2O00231	1,240.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	25.20	0.69	2.26
				Mn-54	< .08	0.08	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA4 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1125	H2O00245	1,340.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	24.10	0.90	2.08
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1126	H2O00232	1,370.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	24.80	0.62	2.17
				Mn-54	< .08	0.08	0.00

UNIT : 03 SURFACE : OA5 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1168	H2O00254	1,030.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	< .09	0.09	0.00
				K-40	25.60	0.87	2.41
				Mn-54	< .09	0.09	0.00

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Follow-up Surveys

UNIT : 03 SURFACE : OA5 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1169	H2O00269	1,350.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	24.60	0.57	2.07
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1170	H2O00255	1,090.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .10	0.10	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	< .09	0.09	0.00
				K-40	29.70	0.82	2.64
				Mn-54	< .09	0.09	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1172	H2O00271	1,360.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	23.90	0.59	2.02
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA5 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1173	H2O00256	1,240.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	< .08	0.08	0.00
				K-40	26.90	0.71	2.38
				Mn-54	< .08	0.08	0.00

UNIT : 03 SURFACE : OA6 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1202	H2O00264	1,460.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	22.40	0.66	1.99
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1203	H2O00279	1,340.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	24.10	0.62	2.05
				Mn-54	< .07	0.07	0.00

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Follow-up Surveys

UNIT : 03 SURFACE : OA6 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1204	ENV00257	1,550.00	1200	Co-57	< .07	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	24.00	0.84	2.28
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1205	H2O00293	1,390.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	23.60	0.52	1.99
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1206	H2O00280	1,110.00	1500	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.03	0.04	0.03
				K-40	24.80	0.61	2.17
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA7 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1196	H2O00261	1,420.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	20.30	0.54	1.85
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1197	H2O00276	1,340.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.04	0.04	0.03
				K-40	22.40	0.53	1.92
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1199	H2O00277	1,380.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	19.60	0.45	1.72
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 03 SURFACE : OA7 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1200	H2O00263	1,250.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	23.80	0.60	2.16
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1201	H2O00278	1,450.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .06	0.06	0.00
				K-40	22.30	0.47	1.88
				Mn-54	< .06	0.06	0.00

UNIT : 03 SURFACE : OA8 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1191	H2O00262	1,220.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	22.10	0.65	1.95
				Mn-54	< .07	0.07	0.00

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Follow-up Surveys

UNIT : 03 SURFACE : OA8 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1192	H2O00259	1,390.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	21.00	0.68	1.93
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1193	H2O00275	1,470.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	22.60	0.46	1.89
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1194	H2O00260	1,380.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	23.70	0.59	2.10
				Mn-54	< .07	0.07	0.00

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Follow-up Surveys

UNIT : 03 SURFACE : OA8 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1195	ENV00247	1,550.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	24.20	0.52	2.04
				Mn-54	< .07	0.07	0.00

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SUMMARY OF SURVEY UNIT(S)

06/05/98 OUTPUT BATCH SN = 258

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
04 - Open Land Areas - Administration and Parking Area	OA1 (Elevated area # 1 from package R0800, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R0800, Surface Soil Sample @ 0"-6" Depth) OA3 (Elevated area # 3 from package R0800, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

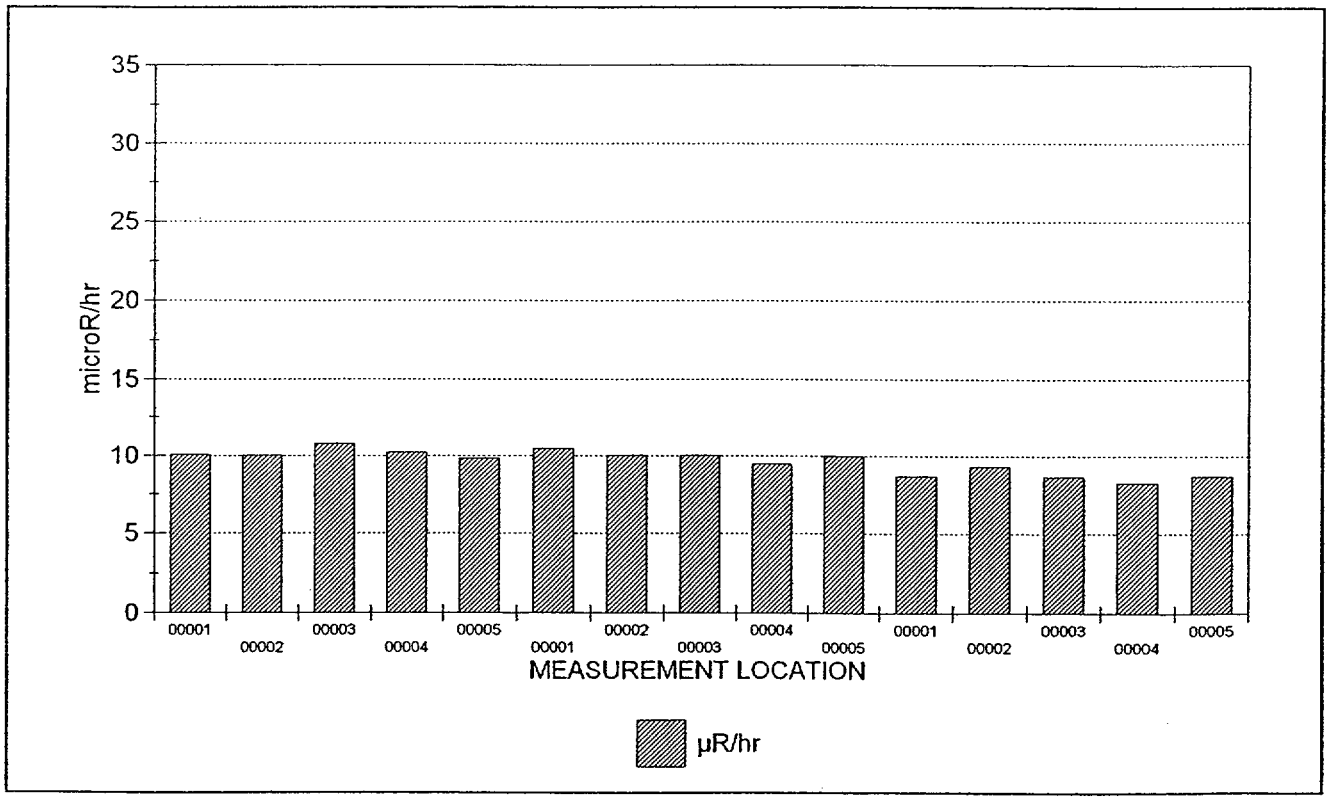
STATISTICAL SUMMARY

	µR/hr
Mean	9.63
Maximum	10.79
Minimum	8.26
Standard Deviation	0.75

Samples Reported	15
Samples Prescribed	15

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



15 RESULTS ARE GRAPHED

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Version 3.0.8 - 4/3/98

DBACORR Documentation
:aProgDBACORR:F_0221.FSL
OUTPUT BATCH SN = 258

JLM

DURATEK

Maine Yankee Atomic Power Plant Site Characterization

06/05/98 Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
638 (2)	04	OA1	G0006	C01	60.00	00001	***10.04***
638 (2)	04	OA1	G0006	C01	60.00	00002	***10.02***
638 (2)	04	OA1	G0006	C01	60.00	00003	***10.79***
638 (2)	04	OA1	G0006	C01	60.00	00004	***10.20***
638 (2)	04	OA1	G0006	C01	60.00	00005	9.81
638 (2)	04	OA2	G0006	C01	60.00	00001	***10.46***
638 (2)	04	OA2	G0006	C01	60.00	00002	***10.03***
638 (2)	04	OA2	G0006	C01	60.00	00003	***10.02***
638 (2)	04	OA2	G0006	C01	60.00	00004	9.48
638 (2)	04	OA2	G0006	C01	60.00	00005	9.97
638 (2)	04	OA3	G0006	C01	60.00	00001	8.70
638 (2)	04	OA3	G0006	C01	60.00	00002	9.32
638 (2)	04	OA3	G0006	C01	60.00	00003	8.63
638 (2)	04	OA3	G0006	C01	60.00	00004	8.26
638 (2)	04	OA3	G0006	C01	60.00	00005	8.68

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
15 results are listed.

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Version 3.0.8 - 4/3/98

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DBACORR Documentation
:aProgDBACORR:F_0230.FSL
OUTPUT BATCH SN = 258

DURATEK

Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98

Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
2/26/98	638 (2)	095349	4/15/98	44-2	PR126918	5/12/98	GLL9768

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 15

06/05/98 OUTPUT BATCH SN = 258

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 04 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1106	H2O00221	1,480.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.05	0.05	0.03
				K-40	18.60	0.51	1.72
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1108	H2O00223	1,300.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.14	0.05	0.04
				K-40	16.50	0.47	1.63
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1109	H2O00236	1,300.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.18	0.08	0.05
				K-40	21.20	0.55	1.86
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 04 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1110	ENV00235	1,500.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	20.40	0.48	1.99
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1111	H2O00237	1,240.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.19	0.05	0.04
				K-40	17.70	0.55	1.64
				Mn-54	< .06	0.06	0.00

UNIT : 04 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1112	H2O00224	1,090.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.11	0.07	0.05
				K-40	17.50	0.62	1.80
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 04 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1113	H2O00238	1,120.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.33	0.07	0.06
				K-40	18.20	0.31	1.70
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1114	H2O00225	1,260.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.14	0.05	0.04
				K-40	17.50	0.66	1.73
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1115	H2O00239	1,160.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.20	0.05	0.04
				K-40	20.30	0.66	1.85
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 04 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1116	H2O00226	1,310.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.14	0.07	0.05
				K-40	17.90	0.67	1.74
				Mn-54	< .07	0.07	0.00

UNIT : 04 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1117	H2O00240	1,200.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.21	0.06	0.05
				K-40	18.60	0.46	1.71
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1118	H2O00228	1,190.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.15	0.07	0.05
				K-40	16.80	0.62	1.70
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 04 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1119	H2O00242	1,070.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.27	0.06	0.06
				K-40	20.20	0.61	1.88
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1120	H2O00229	1,470.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.10	0.06	0.04
				K-40	17.60	0.61	1.67
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1121	H2O00243	1,240.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.22	0.05	0.04
				K-40	20.60	0.43	1.83
				Mn-54	< .06	0.06	0.00

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SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 259

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
05 - Open Land Areas - Foxbird Island	OA1 (Elevated area # 1 from package R1000, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R1000, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

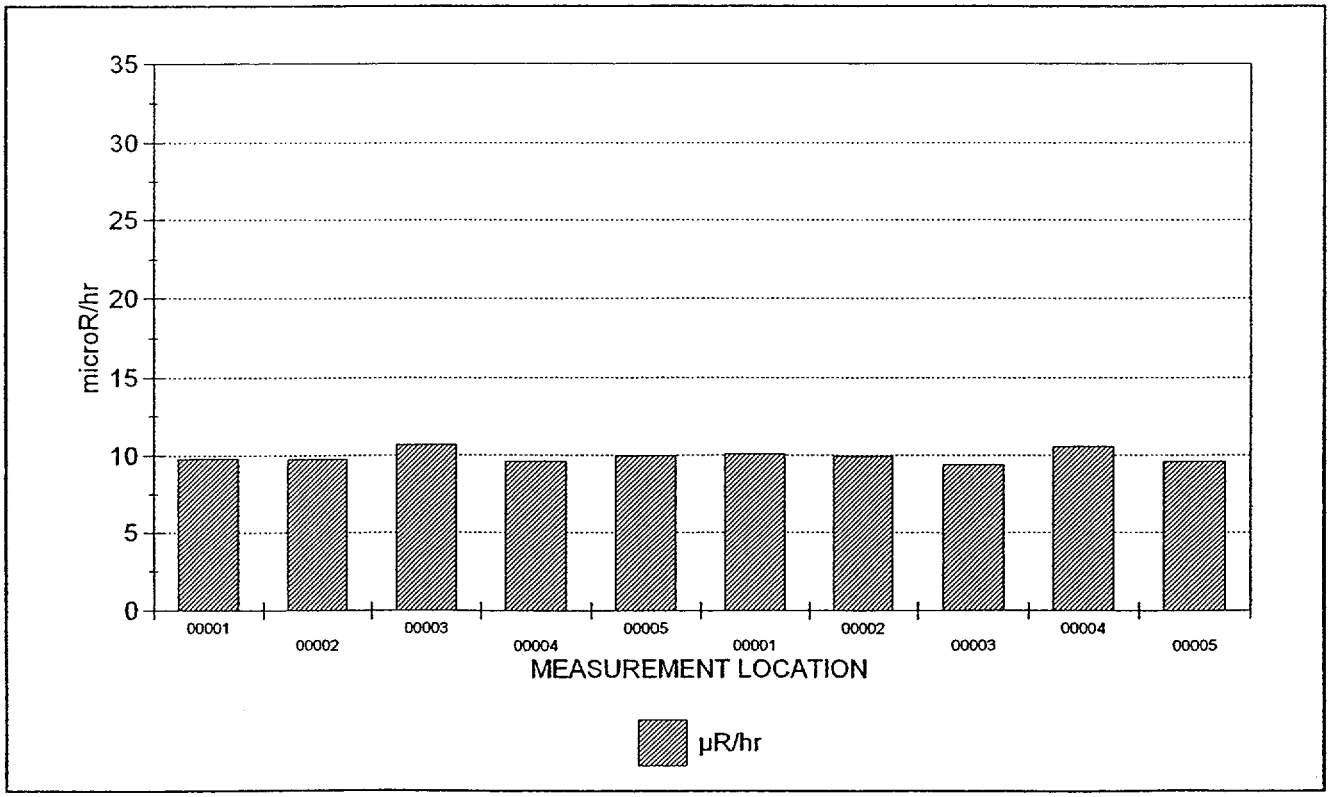
STATISTICAL SUMMARY

	µR/hr
Mean	9.92
Maximum	10.65
Minimum	9.38
Standard Deviation	0.41

Samples Reported	10
Samples Prescribed	10

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



10 RESULTS ARE GRAPHED

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Maine Yankee Atomic Power Plant Site Characterization

06/05/98 Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
638 (2)	05	OA1	G0006	C01	60.00	00001	9.80
638 (2)	05	OA1	G0006	C01	60.00	00002	9.75
638 (2)	05	OA1	G0006	C01	60.00	00003	***10.65***
638 (2)	05	OA1	G0006	C01	60.00	00004	9.57
638 (2)	05	OA1	G0006	C01	60.00	00005	9.95
638 (2)	05	OA2	G0006	C01	60.00	00001	***10.05***
638 (2)	05	OA2	G0006	C01	60.00	00002	9.92
638 (2)	05	OA2	G0006	C01	60.00	00003	9.38
638 (2)	05	OA2	G0006	C01	60.00	00004	***10.55***
638 (2)	05	OA2	G0006	C01	60.00	00005	9.60

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
10 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98

Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
2/26/98	638 (2)	095349	4/15/98	44-2	PR126918	5/12/98	GLL9768

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 10

06/05/98 OUTPUT BATCH SN = 259

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 05 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1127	H2O00246	1,400.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.11	0.05	0.04
				K-40	22.30	0.42	1.89
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1129	ENV00235	1,560.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.06	0.06	0.04
				K-40	24.60	0.38	2.05
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1131	H2O00247	1,450.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.13	0.06	0.04
				K-40	19.00	0.37	1.65
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 05 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1132	H2O00233	1,320.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .08	0.08	0.00
				K-40	20.70	0.77	1.94
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1133	H2O00248	1,390.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	< .07	0.07	0.00
				K-40	21.40	0.41	1.83
				Mn-54	< .06	0.06	0.00

UNIT : 05 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1134	H2O00235	1,390.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.20	0.06	0.05
				K-40	17.60	0.49	1.68
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 05 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1136	H2O00236	1,240.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.08	0.00
				Cs-137	.16	0.07	0.05
				K-40	19.90	0.47	1.88
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1137	H2O00251	1,390.00	1200	Co-57	< .04	0.04	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.21	0.06	0.05
				K-40	19.20	0.52	1.70
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1138	H2O00237	1,220.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	19.00	0.38	1.82
				Mn-54	< .07	0.07	0.00

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GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 10

OUTPUT BATCH SN = 259

06/05/98

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 05 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1139	H2O00252	1,380.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.06	0.05	0.03
				K-40	21.60	0.58	1.87
				Mn-54	< .06	0.06	0.00

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Version 3.0.8 - 4/3/98

JLM

DBACORR Documentation
:aProgDBACORR:R_GSPEC.RSL

SUMMARY OF SURVEY UNIT(S)

06/05/98 OUTPUT BATCH SN = 260

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
06 - Open Land Areas - Dry Cask Storage Area	OA1 (Elevated area # 1 from package R1300, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R1300, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

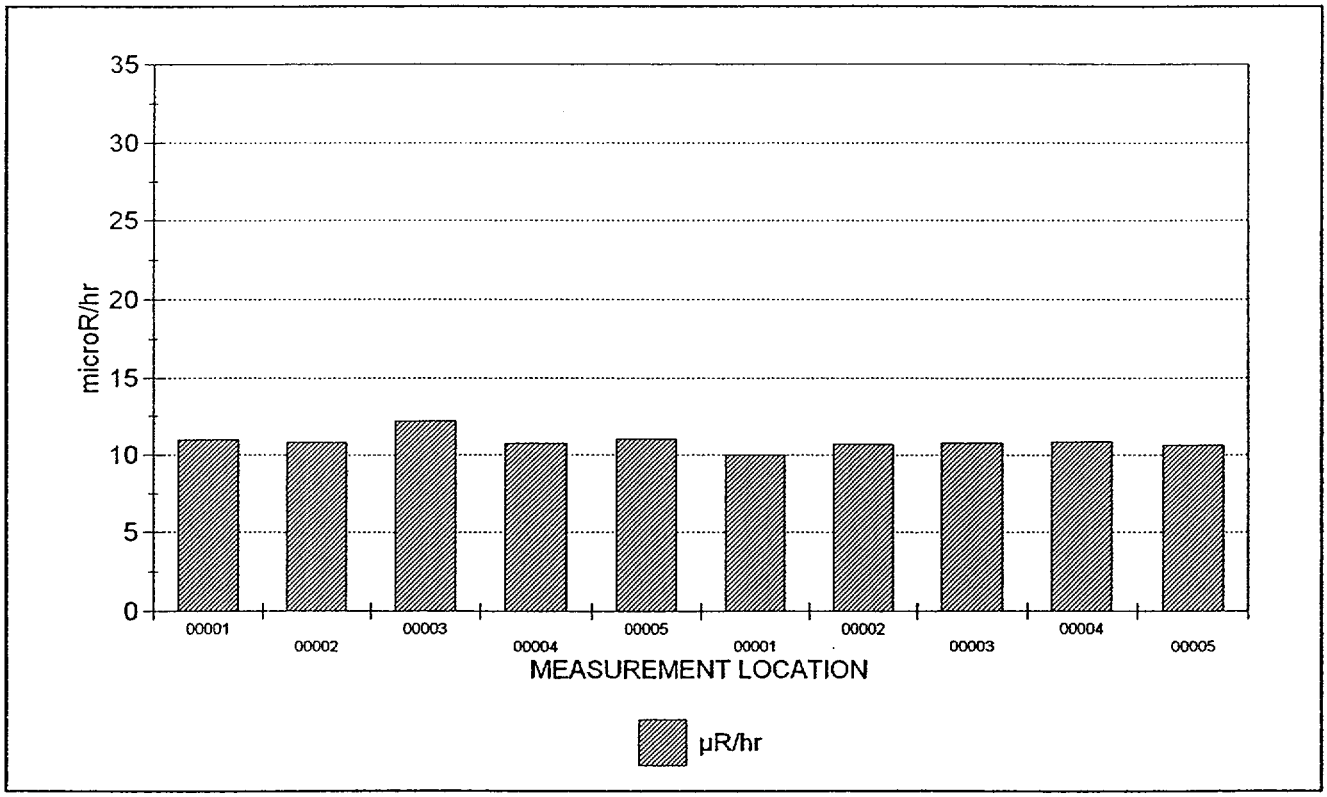
STATISTICAL SUMMARY

	µR/hr
Mean	10.86
Maximum	12.19
Minimum	9.97
Standard Deviation	0.55

Samples Reported	10
Samples Prescribed	10

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



10 RESULTS ARE GRAPHED

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Survey Package: R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
639 (2)	06	OA1	G0006	C01	60.00	00001	***10.97***
639 (2)	06	OA1	G0006	C01	60.00	00002	***10.82***
639 (2)	06	OA1	G0006	C01	60.00	00003	***12.19***
639 (2)	06	OA1	G0006	C01	60.00	00004	***10.75***
639 (2)	06	OA1	G0006	C01	60.00	00005	***10.99***
639 (2)	06	OA2	G0006	C01	60.00	00001	9.97
639 (2)	06	OA2	G0006	C01	60.00	00002	***10.70***
639 (2)	06	OA2	G0006	C01	60.00	00003	***10.76***
639 (2)	06	OA2	G0006	C01	60.00	00004	***10.87***
639 (2)	06	OA2	G0006	C01	60.00	00005	***10.61***

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
10 results are listed.

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DURATEK

Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98

Exposure Rate Measurements

Survey Package: R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
2/26/98	639 (2)	098620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 10

06/05/98 OUTPUT BATCH SN = 260

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 06 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1146	ENV00240	1,870.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	20.60	0.37	1.91
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1148	ENV00242	1,840.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	17.50	0.27	1.68
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1149	ENV00241	1,670.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .05	0.05	0.00
				K-40	18.90	0.44	1.83
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 06 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1150	ENV00237	1,540.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.09	0.08	0.05
				K-40	21.40	0.36	1.84
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1151	ENV00238	1,800.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	21.80	0.46	1.82
				Mn-54	< .06	0.06	0.00

UNIT : 06 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1140	ENV00237	1,720.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	19.00	0.38	1.83
				Mn-54	< .06	0.06	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 06 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1141	H2O00253	1,390.00	1200	Co-57	< .06	0.06	0.00
				Co-60	.40	0.07	0.05
				Cs-134	< .07	0.07	0.00
				Cs-137	.03	0.06	0.03
				K-40	21.90	0.58	1.88
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1142	ENV00238	1,870.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	< .06	0.06	0.00
				K-40	19.00	0.39	1.79
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1143	H2O00255	1,260.00	1200	Co-57	< .06	0.06	0.00
				Co-60	.45	0.07	0.06
				Cs-134	< .08	0.08	0.00
				Cs-137	.03	0.05	0.03
				K-40	23.40	0.56	2.02
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 06 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1144	H2O00239	1,180.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .07	0.07	0.00
				Cs-137	.12	0.05	0.04
				K-40	18.00	0.60	1.79
				Mn-54	< .06	0.06	0.00

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SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 261

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)

07 - Open Land Areas West of Bailey Cove

SURFACE(S)

OA1 (Elevated area # 1 from package R1600, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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Maine Yankee Atomic Power Plant Site Characterization

06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

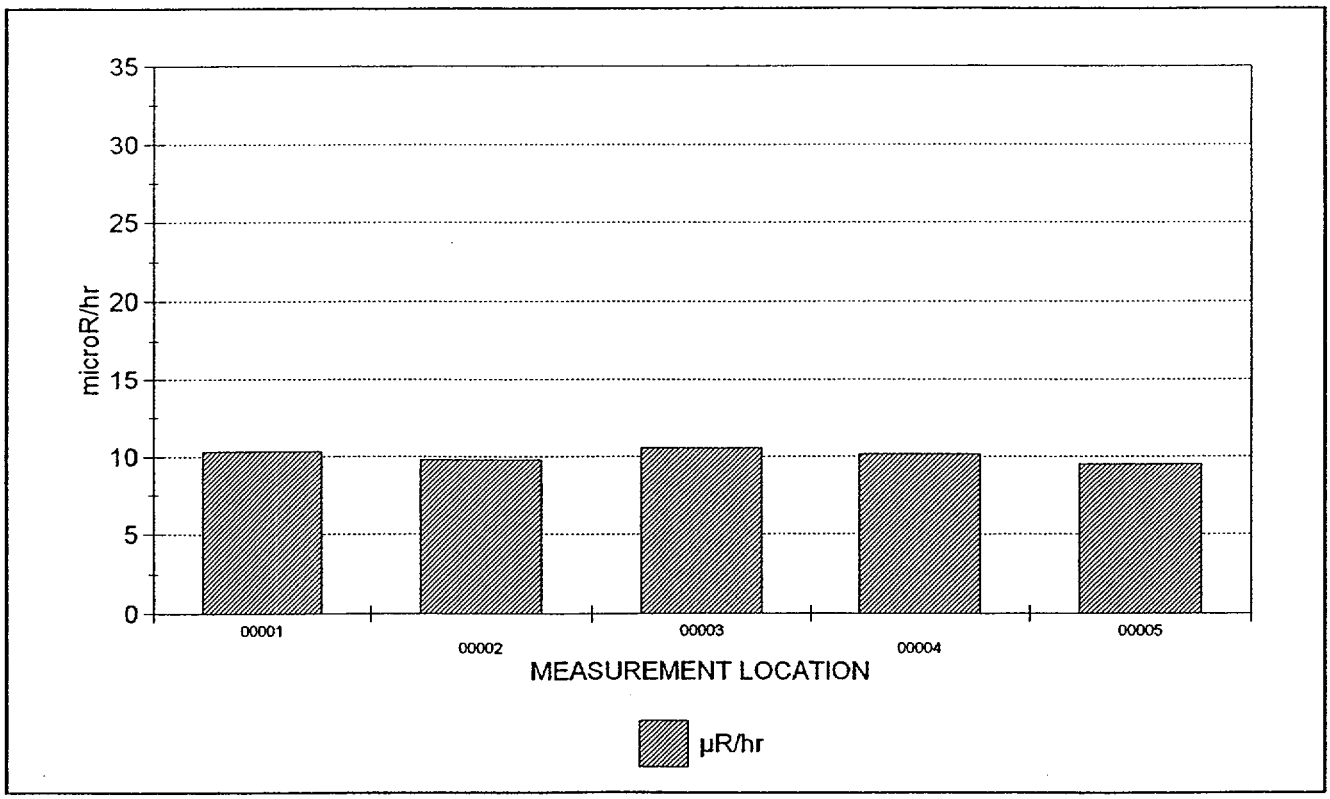
STATISTICAL SUMMARY

	µR/hr
Mean	10.05
Maximum	10.53
Minimum	9.49
Standard Deviation	0.41

Samples Reported	5
Samples Prescribed	5

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



5 RESULTS ARE GRAPHED

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Maine Yankee Atomic Power Plant Site Characterization

06/05/98 Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
635 (2)	07	OA1	G0006	C01	60.00	00001	***10.31***
635 (2)	07	OA1	G0006	C01	60.00	00002	9.80
635 (2)	07	OA1	G0006	C01	60.00	00003	***10.53***
635 (2)	07	OA1	G0006	C01	60.00	00004	***10.13***
635 (2)	07	OA1	G0006	C01	60.00	00005	9.49

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
5 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98

Exposure Rate Measurements

Survey Package : R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
2/24/98	635 (2)	95349	4/15/98	44-2	PR126918	5/12/98	GLL9768

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 5

06/05/98 OUTPUT BATCH SN = 261

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 07 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1085	H2O00210	1,400.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .08	0.08	0.00
				K-40	24.90	0.57	2.17
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1086	H2O00226	1,250.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.25	0.06	0.05
				K-40	21.20	0.61	1.88
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1087	H2O00211	1,300.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .08	0.08	0.00
				K-40	28.10	0.80	2.44
				Mn-54	< .09	0.09	0.00

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GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 5

OUTPUT BATCH SN = 261

06/05/98

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 07 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1088	H2O00227	1,430.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	24.50	0.45	2.03
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1089	H2O00212	1,220.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.29	0.06	0.06
				K-40	19.70	0.60	1.89
				Mn-54	< .07	0.07	0.00

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SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 262

PACKAGE R2500 ENVIRONS

Follow-up Surveys

UNIT(S)	SURFACE(S)
08 - Open Land Areas - Bailey House Area	OA1 (Elevated area # 1 from package R1800, Surface Soil Sample @ 0"-6" Depth) OA2 (Elevated area # 2 from package R1800, Surface Soil Sample @ 0"-6" Depth) OA3 (Elevated area # 3 from package R1800, Surface Soil Sample @ 0"-6" Depth) OA4 (Elevated area # 4 from package R1800, Surface Soil Sample @ 0"-6" Depth)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS

MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
G0006	SURFACE SOIL - GAMMA	0.00

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06/05/98

Exposure Rate Measurements

Survey Package R2500 ENVIRONS

Follow-up Surveys

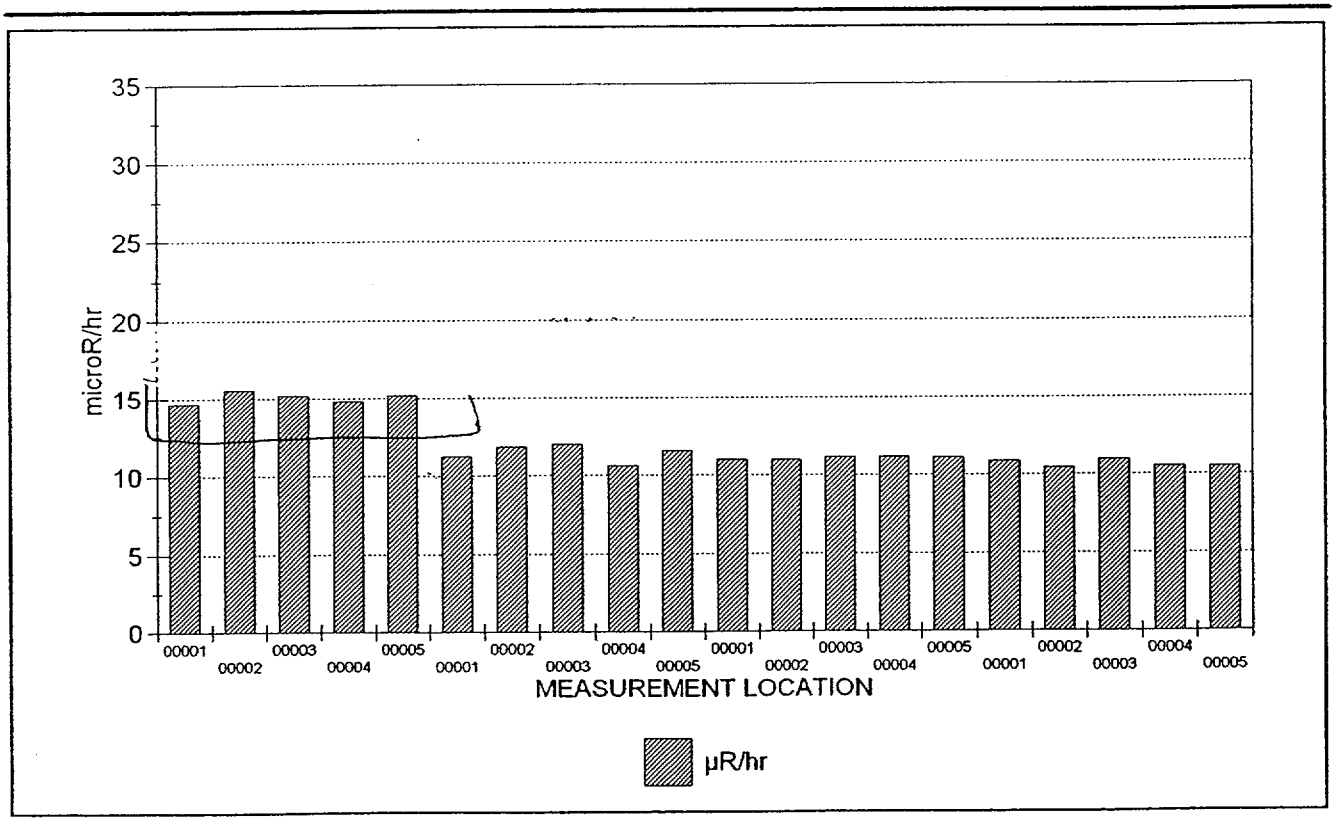
STATISTICAL SUMMARY

	µR/hr
Mean	12.04
Maximum	15.54
Minimum	10.43
Standard Deviation	1.84

Samples Reported	20
Samples Prescribed	20

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES



20 RESULTS ARE GRAPHED

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06/05/98 Exposure Rate Measurements

Survey Package: R2500 ENVIRONS

Follow-up Surveys

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
647 (2)	08	OA1	G0006	C01	60.00	00001	***14.65***
647 (2)	08	OA1	G0006	C01	60.00	00002	***15.54***
647 (2)	08	OA1	G0006	C01	60.00	00003	***15.18***
647 (2)	08	OA1	G0006	C01	60.00	00004	***14.80***
647 (2)	08	OA1	G0006	C01	60.00	00005	***15.18***
639 (2)	08	OA2	G0006	C01	60.00	00001	***11.22***
639 (2)	08	OA2	G0006	C01	60.00	00002	***11.81***
639 (2)	08	OA2	G0006	C01	60.00	00003	***11.96***
639 (2)	08	OA2	G0006	C01	60.00	00004	***10.57***
639 (2)	08	OA2	G0006	C01	60.00	00005	***11.52***
639 (2)	08	OA3	G0006	C01	60.00	00001	***10.97***
639 (2)	08	OA3	G0006	C01	60.00	00002	***10.96***
639 (2)	08	OA3	G0006	C01	60.00	00003	***11.13***
639 (2)	08	OA3	G0006	C01	60.00	00004	***11.11***
639 (2)	08	OA3	G0006	C01	60.00	00005	***11.10***
639 (2)	08	OA4	G0006	C01	60.00	00001	***10.83***
639 (2)	08	OA4	G0006	C01	60.00	00002	***10.43***
639 (2)	08	OA4	G0006	C01	60.00	00003	***10.94***
639 (2)	08	OA4	G0006	C01	60.00	00004	***10.51***
639 (2)	08	OA4	G0006	C01	60.00	00005	***10.45***

NOTES: Exposure rates reported in net µR/hr. Count times are reported in seconds.
Underlined results did not meet the minimum required count time.
Bold values exceed 10 µR/hr.
20 results are listed.

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DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

06/05/98 Exposure Rate Measurements

Survey Package: R2500 ENVIRONS

Follow-up Surveys

SURVEY DATE	FILE #	M2350 INST S/N	M2350 CAL DUE	DETECTOR MODEL	DETECTOR S/N	DETECTOR CAL DUE	TECHNICIAN
2/26/98	639 (2)	098620	3/20/98	44-2	129304	4/19/98	DRK2986
					CALIBRATION DATES VERIFIED AS ACCEPTABLE		
3/3/98	647 (2)	080498	4/8/98	44-2	PR075119	4/8/98	CWI5440
					CALIBRATION DATES VERIFIED AS ACCEPTABLE		

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED = 20

OUTPUT BATCH SN = 262

06/05/98

Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 08 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1214	BIO00029	785.00	3600	Co-57	< .04	0.04	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.12	0.05	0.04
				K-40	24.40	0.50	1.92
				Mn-54	< .05	0.05	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1215	H2O00291	1,130.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .08	0.08	0.00
				K-40	23.90	0.55	2.10
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1216	H2O00296	1,270.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.09	0.05	0.04
				K-40	23.40	0.45	2.00
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 08 SURFACE : OA1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1217	H2O00292	1,200.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	24.60	0.57	2.12
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1218	H2O00294	1,360.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .07	0.07	0.00
				K-40	25.00	0.64	2.10
				Mn-54	< .07	0.07	0.00

UNIT : 08 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1152	H2O00240	1,120.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.10	0.06	0.04
				K-40	16.80	0.79	1.76
				Mn-54	< .08	0.08	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 08 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1153	BIO00035	943.00	1500	Co-57	< .05	0.05	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.15	0.05	0.04
				K-40	22.00	0.75	1.96
				Mn-54	< .06	0.06	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1155	H2O00264	1,300.00	1200	Co-57	< .05	0.05	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .08	0.08	0.00
				K-40	22.10	0.65	1.93
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1156	H2O00250	1,140.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .09	0.09	0.00
				Cs-134	< .10	0.10	0.00
				Cs-137	.14	0.06	0.05
				K-40	20.10	0.76	1.97
				Mn-54	< .08	0.08	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 08 SURFACE : OA2 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1157	H2O00275	1,100.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.11	0.06	0.05
				K-40	21.40	0.88	2.09
				Mn-54	< .08	0.08	0.00

UNIT : 08 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1158	H2O00265	1,110.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.08	0.06	0.04
				K-40	22.80	0.42	2.02
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1159	H2O00251	1,260.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .09	0.09	0.00
				K-40	23.60	0.52	2.13
				Mn-54	< .07	0.07	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 08 SURFACE : OA3 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1160	H2O00278	1,330.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	< .09	0.09	0.00
				K-40	25.80	0.54	2.25
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1161	H2O00266	1,110.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.07	0.05	0.03
				K-40	25.80	0.53	2.23
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1162	H2O00252	1,110.00	1200	Co-57	< .06	0.07	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	< .10	0.10	0.00
				K-40	25.80	0.97	2.39
				Mn-54	< .08	0.08	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 08 SURFACE : OA4 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1163	H2O00267	1,180.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .06	0.06	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.03	0.06	0.03
				K-40	22.50	0.43	1.97
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1164	H2O00274	1,200.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .08	0.08	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.05	0.06	0.04
				K-40	22.10	0.74	2.08
				Mn-54	< .08	0.08	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00003

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1165	H2O00290	1,110.00	2000	Co-57	< .04	0.04	0.00
				Co-60	< .05	0.05	0.00
				Cs-134	< .06	0.06	0.00
				Cs-137	.12	0.04	0.03
				K-40	20.20	0.48	1.66
				Mn-54	< .05	0.05	0.00

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Survey Package R2500 ENVIRONS

Follow-up Surveys

UNIT : 08 SURFACE : OA4 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00004

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1166	H2O00253	1,080.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .09	0.09	0.00
				Cs-137	.14	0.07	0.05
				K-40	20.30	0.60	2.00
				Mn-54	< .07	0.07	0.00

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth
SAMPLE LOCATOR: 00005

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1167	H2O00268	1,090.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.07	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.12	0.05	0.04
				K-40	23.20	0.41	2.06
				Mn-54	< .07	0.07	0.00

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