

28153-01

M-018

Bechtel National, Inc.

Engineers - Constructors

Jackson Plaza Tower
800 Oak Ridge Turnpike
Oak Ridge, Tennessee



Mail Address: P O Box 350, Oak Ridge, TN 37831-0350
Telex: 3785873

JUN 12 1985

U.S. Department of Energy
Oak Ridge Operations
Post Office Box E
Oak Ridge, Tennessee 37830

Attention: R. G. Atkin

Subject: Bechtel Job No. 14501, FUSRAP Project
DOE Contract No. DE-AC05-81OR20722
Ballod Characterization Report
File No. 066, WBS No. 138

Dear Mr. Atkin:

A radiological survey of the Ballod Property, Rochelle Park, New Jersey, was conducted during November 1984 through March 1985 by Bechtel National, Inc. (BNI). An earlier radiological survey performed by Oak Ridge Associated Universities (ORAU) established that buried deposits of radioactivity existed in the northeast corner (the North Dike Area) and in the south end (South Dike Area) of the site. The remedial action guideline for thorium-232 surface contamination was reduced from 15 to 5 pCi/g between the time of the ORAU survey and the 1984 survey (see Table 1). This guideline change necessitated the more detailed 1984 survey.

The current radiological field survey was conducted in accordance with the survey plan for the radiological characterization of the Ballod and Associates property. The survey grid consisted of mutually perpendicular lines spaced 100 ft apart, as shown in Figure 1, and has been tied into the New Jersey State grid system.

During this survey, measurements were taken for near-surface gamma radiation levels and gamma radiation exposure rates 3 ft above the ground. Boreholes were drilled and gamma logging was performed. Surface and subsurface soil samples and water samples were taken in each area as appropriate. The results of these measurements and sample analyses are presented in the attached tables.

CONCURRENCE

230	231	232		
-----	-----	-----	--	--

Mr. R. G. Atkin
Page Two

All direct field measurements and laboratory results represent gross readings; background radiation levels and radionuclide concentrations have not been subtracted from the totals. Background measurements were not taken for this survey because sufficient background information for this general area of New Jersey exists from previous surveys (see Table 2).

Surface and subsurface soil sampling locations are shown in Figures 2 and 3, respectively, and the results of laboratory analyses are provided in Table 3. Thorium-232 concentrations ranged from background levels to 503 pCi/g. Radium-226 concentrations above the DOE guideline were found in a few samples, with concentrations up to 6.7 pCi/g. Uranium-238 concentrations ranged from less than 3.3 to 627 pCi/g with one sample exceeding the DOE guideline of 150 pCi/g. Concentrations of potassium-40, analyzed for in selected samples, ranged from 6.8 to 20 pCi/g.

Near-surface gamma radiation levels measured on the property ranged from background (approximately 5000 cpm) to 980,000 cpm. Results of near-surface gamma measurements are presented in Table 4. Gamma radiation exposure rates ranged from 8 to 590 uR/h on this property. The average exposure rate for the site was 34 uR/h. These results can be compared to the DOE guideline of 20 uR/h. Gamma radiation exposure rates are presented in Table 5 and measurement locations are shown in Figure 4.

Borehole gamma logging was performed to indicate the general depth and concentrations of contamination. Detailed gamma logging results are reported in Table 6. Borehole locations are shown in Figure 5.

On-site surface water samples were collected at the locations shown in Figure 6. These samples were analyzed for suspended and dissolved gross alpha. The results of the analysis are given in Table 7. Gross alpha activity is expected to result from uranium-238/radium-226. The DOE guidelines (DOE Order 5480.1A) for dissolved and suspended radium-226 in uncontrolled areas are 30 and 30,000 pCi/l, respectively; the guidelines for dissolved and suspended uranium-238 are 600 and 40,000 pCi/l, respectively.

Results of this survey indicate thorium-232 as the major contaminant on the site. In addition, elevated concentrations of uranium-238 and radium-226 were found in a small number of soil samples collected from the northeast corner and the south end of the site.

The surface contamination boundaries were determined using the near-surface gamma radiation readings. The instrument response (SPA-3 with a cone shield) was correlated to laboratory analyses of

Mr. R. G. Atkin
Page Three

surface soil samples using linear regression analysis. An instrument reading of approximately 11,000 cpm was found to be an indication of thorium-232 concentrations exceeding the 5-pCi/g surface soil guideline.

Areas of subsurface contamination were determined using logs of borehole gamma radiation readings and subsurface soil samples. Gamma radiation measurements were correlated with the results of the laboratory analysis of soil samples collected from the boreholes. The correlation between gamma loggings and soil concentrations in picocuries per gram (pCi/g) show that approximately 40,000 cpm is equivalent to 15 pCi/g.

Contamination boundaries for surface and subsurface contamination are shown in Figure 7. These areas generally correspond with the areas of contamination reported by the ORAU report.

In addition to the radiological characterization, several soil samples were collected and chemically analyzed for priority pollutant organics and pesticides, including polychlorinated biphenols (PCBs) and Resource Conservation and Recovery Act (RCRA) characteristics. Four composite samples were taken, shown in Figure 3, and were determined not to be RCRA hazardous.

Composite sample number 1 from location E9475, N9050 showed concentrations of fluorathene and pyrene. See Appendix A for priority pollutant analytical results. Both fluorathene and pyrene are insoluble in water and classified as having low volatility; therefore, excavation in this area is unlikely to pose a threat to the environment via chemical hazards.

Very truly yours,


G. P. Croftwell
Project Manager - FUSRAP

ms

cc: (w/o attachment)

E. L. Keller
J. F. Wing

5346B

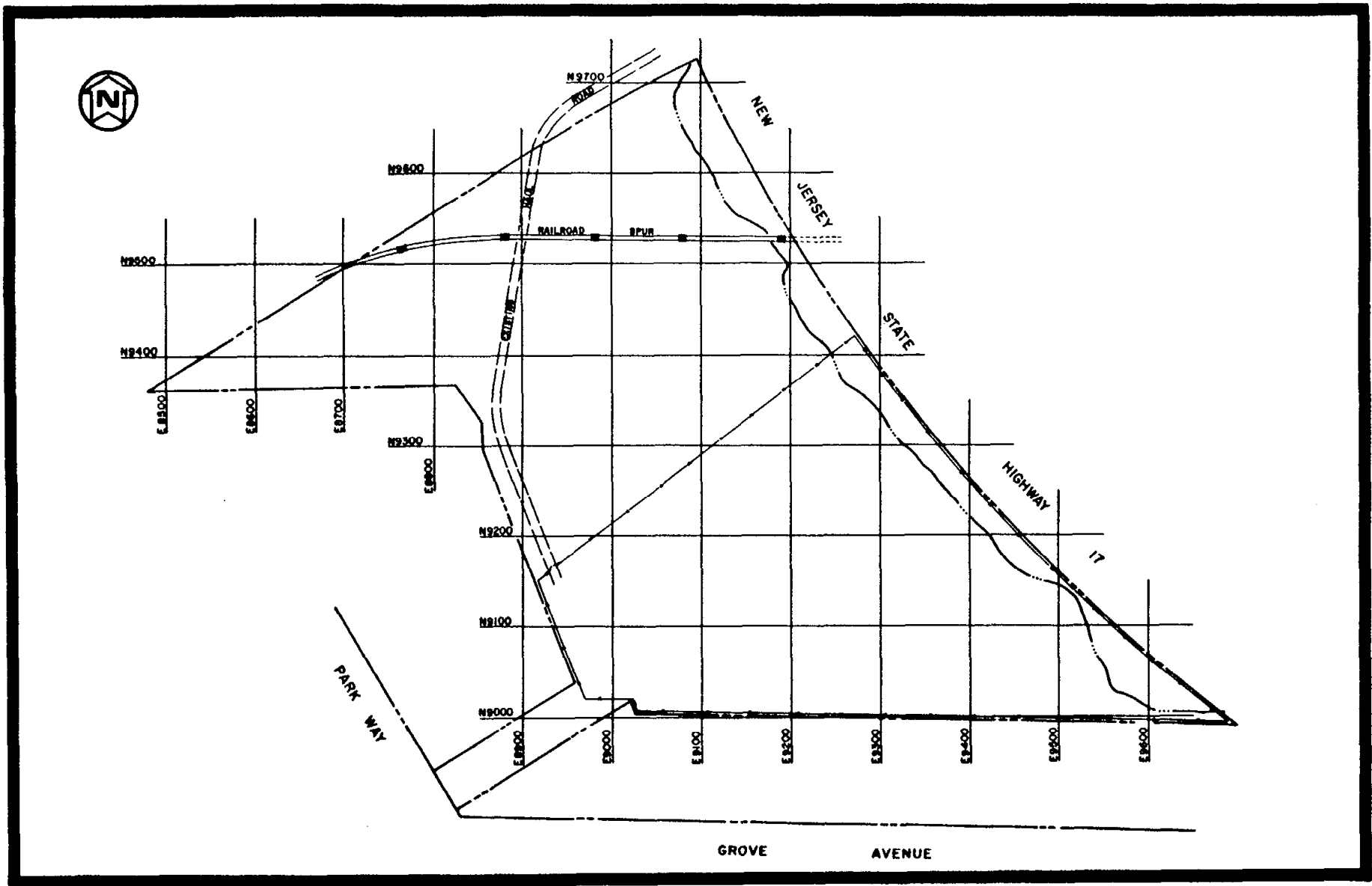


FIGURE 1 RADILOGICAL SURVEY GRID FOR THE BALLOD PROPERTY

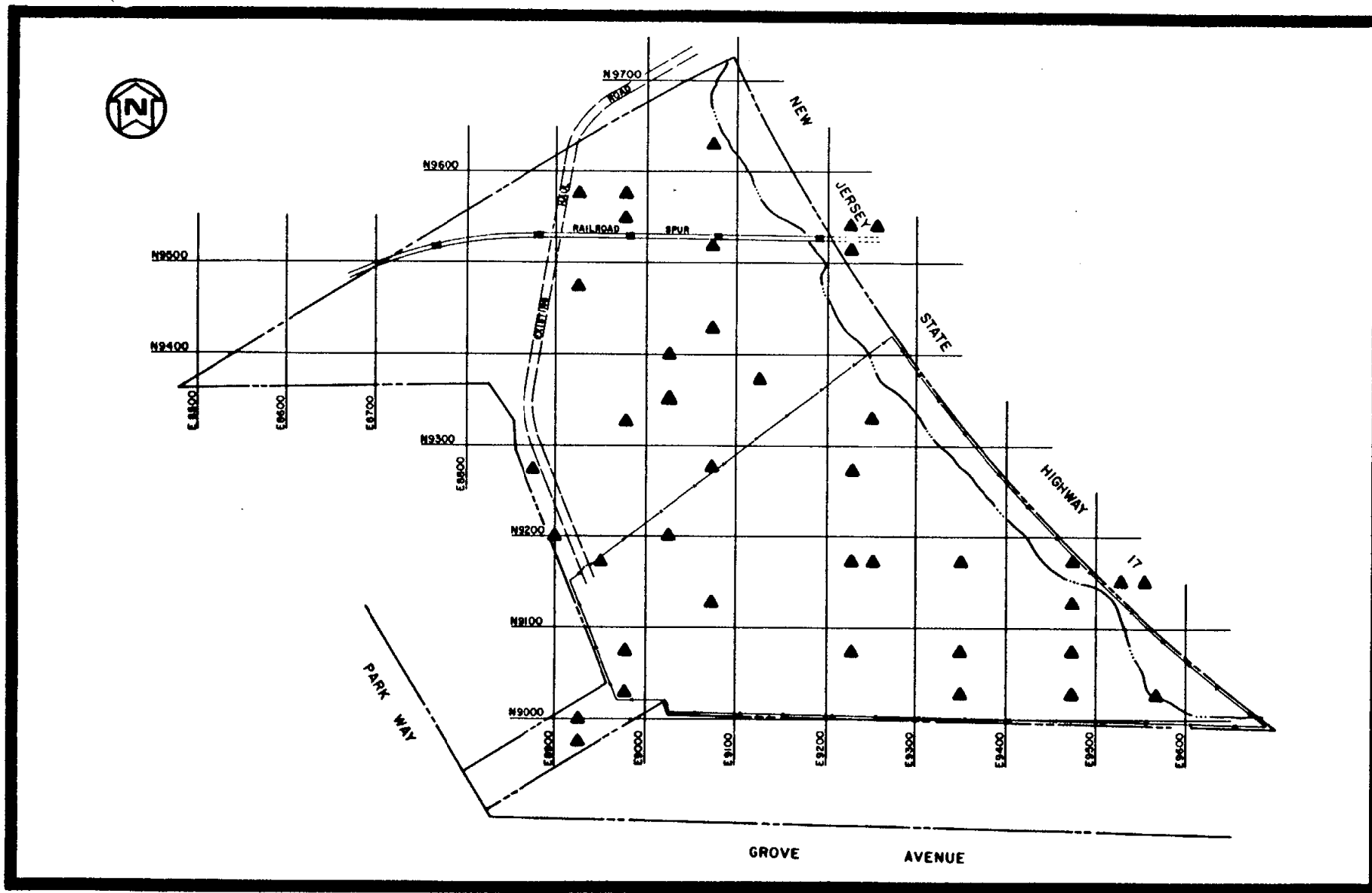


FIGURE 2 SURFACE SOIL SAMPLE LOCATIONS

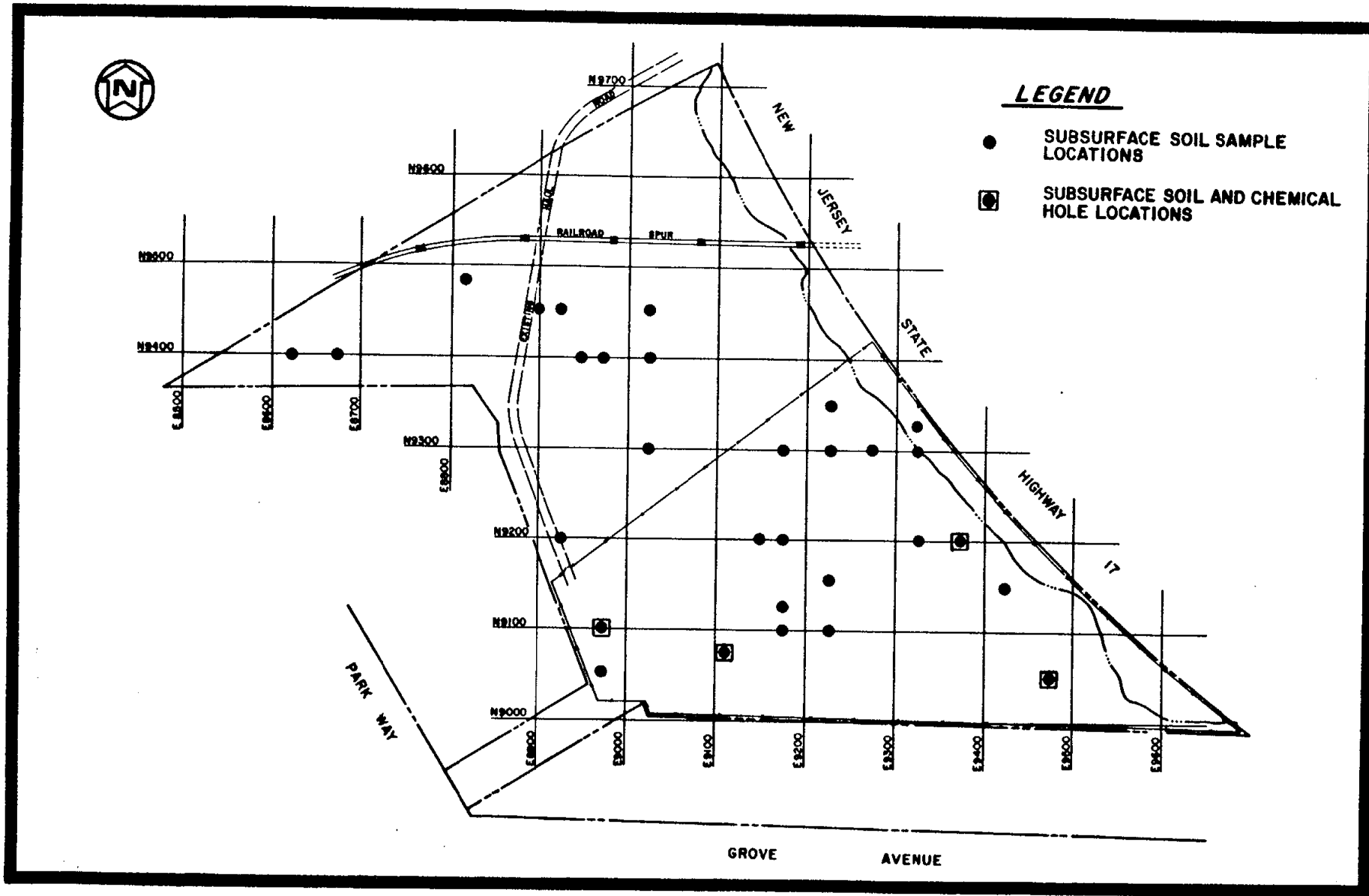


FIGURE 3 SUBSURFACE SOIL SAMPLE LOCATIONS

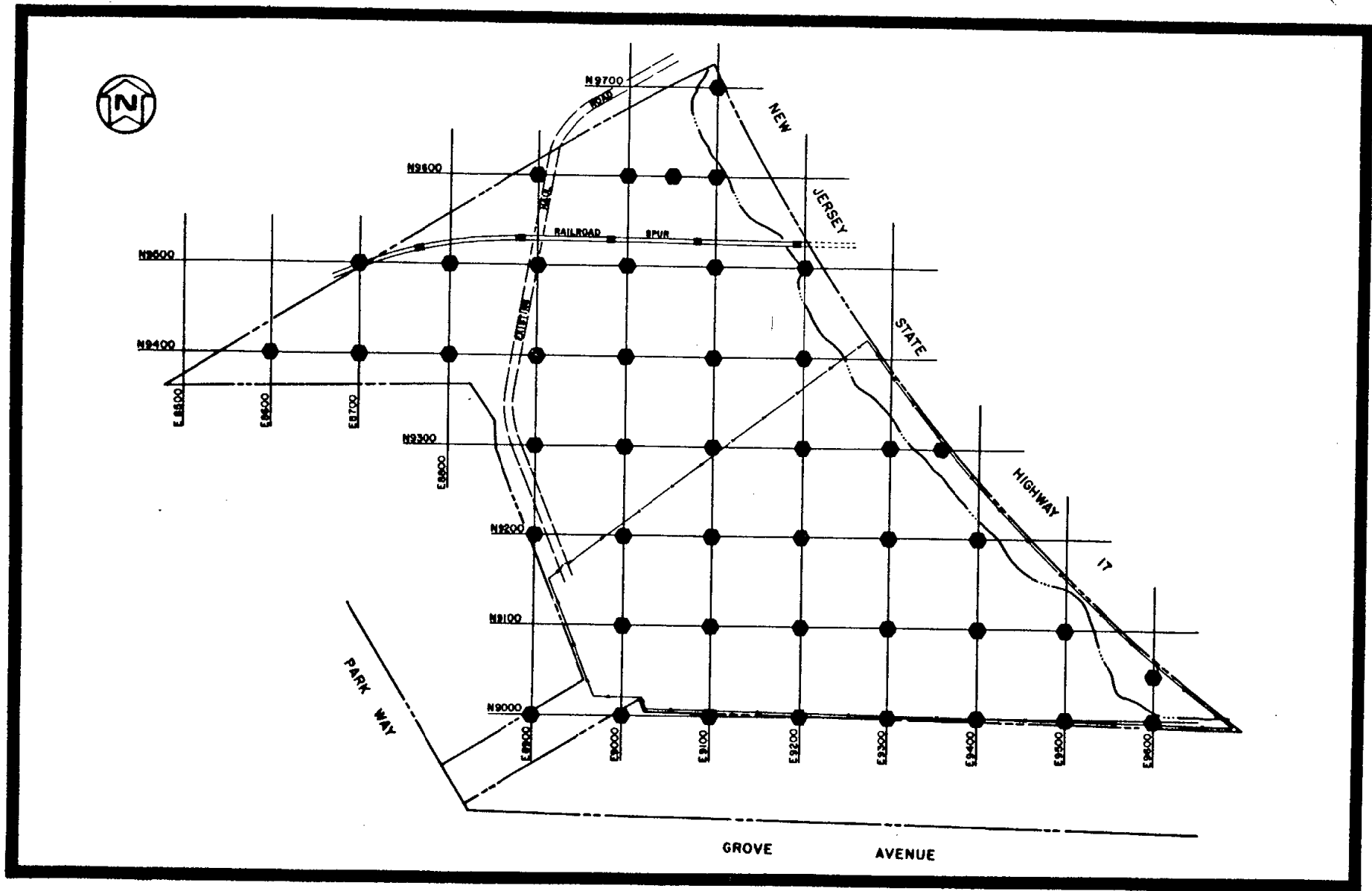


FIGURE 4 GAMMA RADIATION EXPOSURE RATE MEASUREMENT LOCATIONS

28153

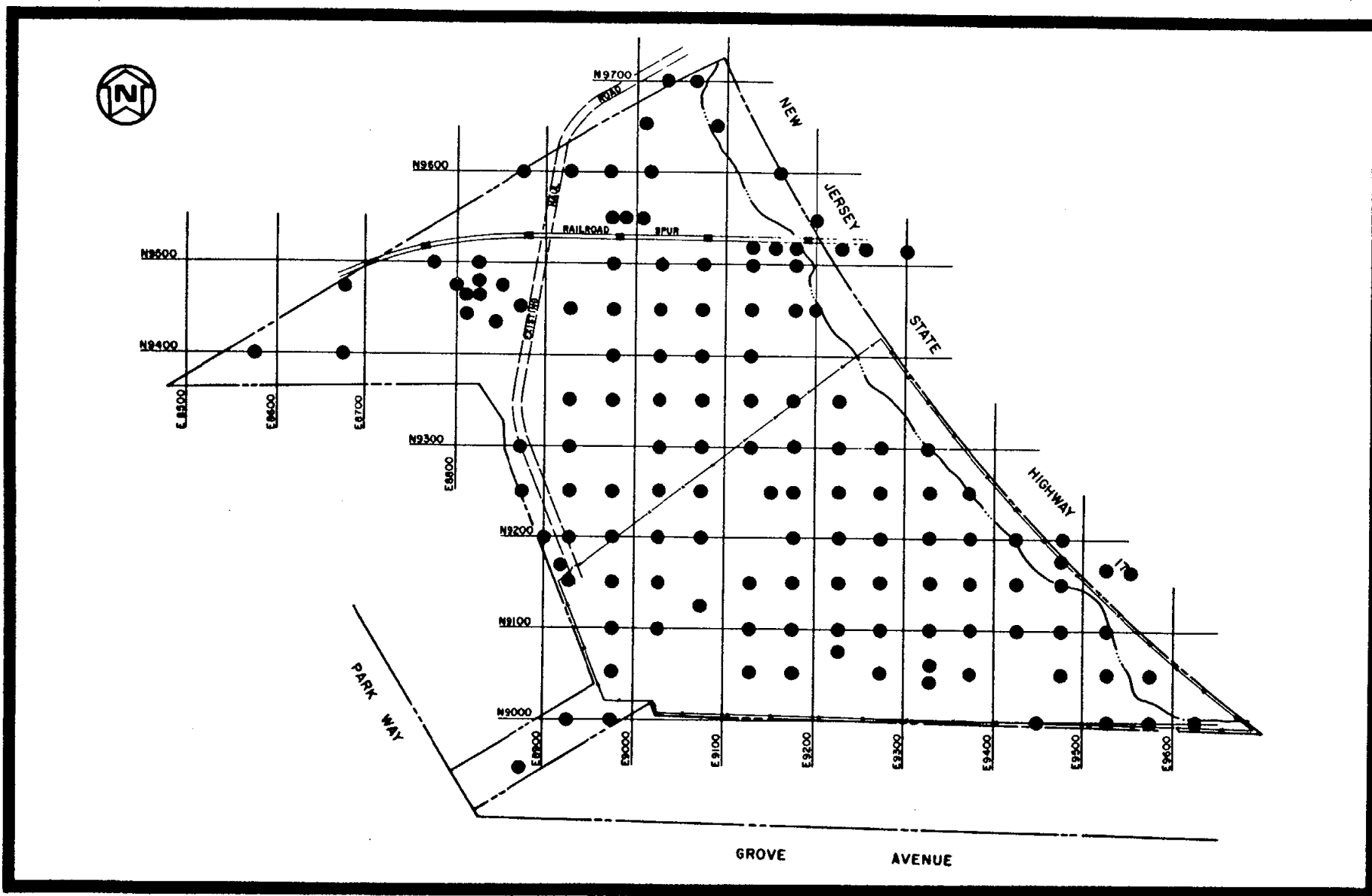


FIGURE 5 LOCATION OF BOREHOLES DRILLED AT THE BALLOD PROPERTY DURING 1984 RADIOLICAL SURVEY

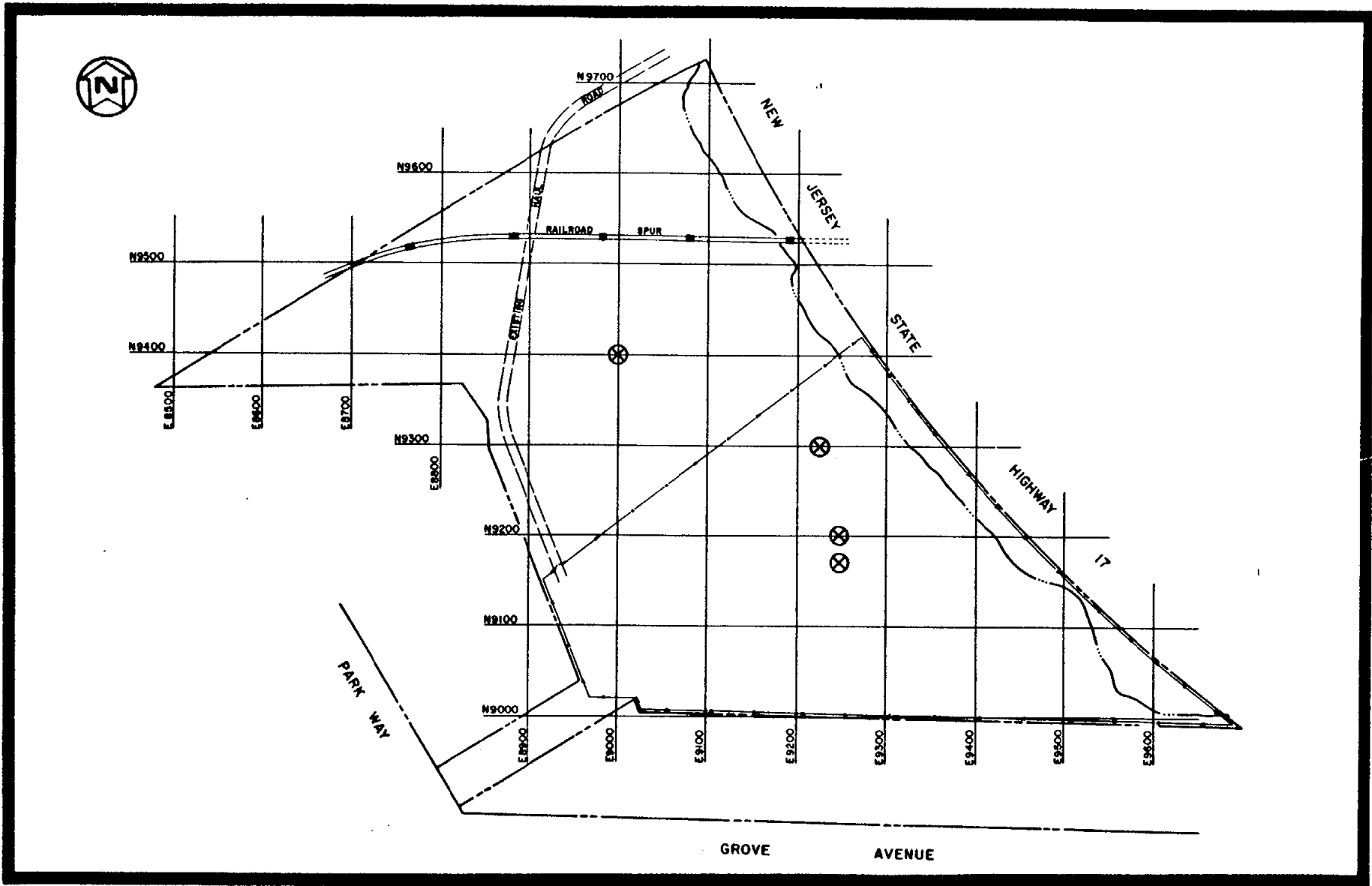


FIGURE 6 SURFACE WATER SAMPLE LOCATIONS

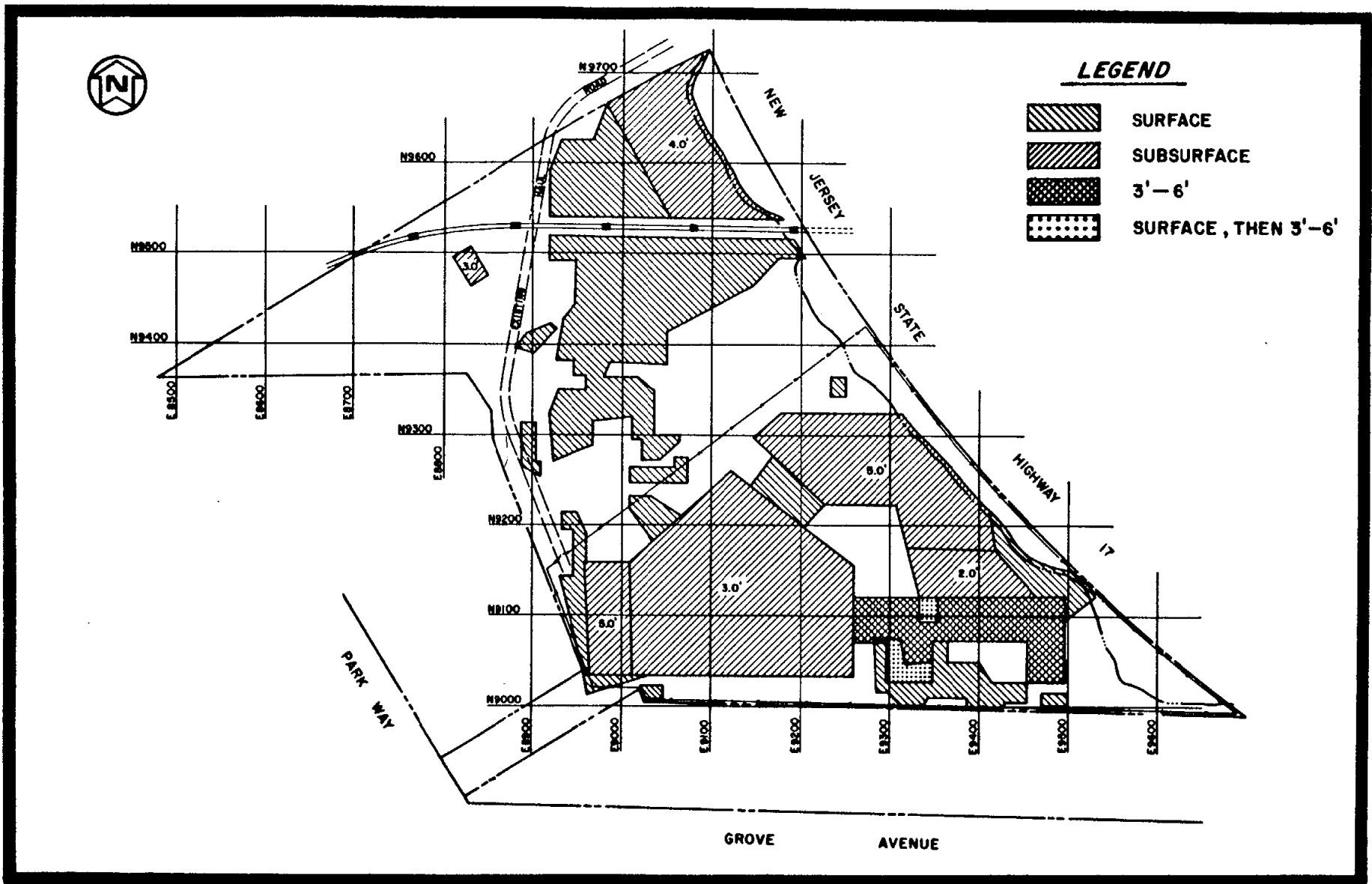


FIGURE 7 CONTAMINATION BOUNDARIES ON BALLOD PROPERTY

28153

TABLE 1
SUMMARY OF APPLICABLE RADIATION GUIDELINES FOR FUSRAP SITES

Exposure Conditions	Guideline Value	Guideline Source
<u>External Gamma Radiation</u>		
Level of gamma radiation at any location on a site to be released for unrestricted use	20 uR/h above background	U.S. DOE Guidelines for Residual Radioactivity at FUSRAP and Remote SFMP Sites (February 1985)
<u>Radionuclide Concentrations in Soil</u>		
Maximum permissible concentration of radium-226 and thorium-232 in soil above background levels averaged over 100 m ³	5 pCi/g averaged over the first 15 cm of soil below the surface, 15 pCi/g when averaged over 15-cm-thick soil layers more than 15 cm below the surface	U.S. DOE Guidelines for Residual Radioactivity at FUSRAP and Remote SFMP Sites (February 1985)
Maximum permissible concentration of Uranium-238 in soil	150 pCi/g above background	U.S. DOE Guidelines for Residual Radioactivity at FUSRAP and Remote SFMP Sites (April 1984)

TABLE 2
BACKGROUND RADIATION LEVELS FOR THE NORTHERN NEW JERSEY AREA*

Type of Radiation Measurement or Sample	Typical Radiation Level or Radionuclide Concentrations
Gamma exposure rate at 1 m above floor or ground surface (uR/h)	8.0
Concentration of radionuclides in soil (pCi/g)	
Thorium-232	0.9
Uranium-238	0.9
Radium-226	0.9

*Oak Ridge National Laboratory. State Background Levels:
Results of Measurements Taken During 1975-1979, ORNL/TM-7343,
Oak Ridge, TN, November 1981.

TABLE 5
 RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES FOR THE
 BALLOD PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth (ft)	Uranium-238 pCi/g \pm 1 sigma	Radium-226		Thorium-232		Potassium-40	
East	North			pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma
8625.0	9400.0	1.0	<9.70	.61 +/-	.50	<5.00			
8675.0	9400.0	1.0	<9.89	<.94		<1.70			
8812.0	9487.0	1.0	<5.00	5.31 +/-	1.37	114.70 +/-	3.98		
8875.0	9275.0	0.5	<8.48	<1.04		<1.68			
8900.0	9200.0	0.5	<3.32	<.50		<1.50			
8900.0	9450.0	2.0	<8.85	<.80		<2.04			
8925.0	8975.0	0.5	<12.39	1.42 +/-	.44	1.16 +/-	.50		
8925.0	9000.0	0.5	<5.00	1.48 +/-	.28	28.79 +/-	1.35		
8925.0	9200.0	1.0	<5.43	.39 +/-	.20	<1.27			
8925.0	9450.0	6.0	<6.33	.72 +/-	.22	<1.50			
8925.0	9475.0	0.5	<10.32	<1.24		<1.50			
8925.0	9575.0	0.5	<5.00	<1.46		1.69 +/-	.84		
8925.0	9575.0	3.0	<19.29	.74 +/-	.63	6.54 +/-	1.00		
8950.0	9175.0	0.5	<7.02	<.86		<1.50			
8950.0	9400.0	5.0	<16.60	<1.37		11.61 +/-	1.08		
8975.0	9025.0	0.5	<14.87	<1.27		8.14 +/-	.90		
8975.0	9050.0	1.0	<14.31	2.10 +/-	.40	13.13 +/-	.95		
8975.0	9075.0	0.5	<8.62	.58 +/-	.38	<1.54			
8975.0	9100.0	1.0	<6.30	.40 +/-	.30	2.00 +/-	4.00	8.70 +/-	1.50
8975.0	9100.0	3.0	<6.50	<.70		.90 +/-	.40	13.50 +/-	2.70
8975.0	9100.0	5.0		.70 +/-	.20	1.50 +/-	.40	9.50 +/-	2.40
8975.0	9100.0	10.0	<4.10	.40 +/-	.20	.40 +/-	.20	10.40 +/-	1.60
8975.0	9325.0	0.5	<5.00	<.50		7.27 +/-	1.27		
8975.0	9400.0	1.0	<11.96	.86 +/-	.33	<1.50			
8975.0	9400.0	1.0	<5.00	<1.42		10.74 +/-	1.23		
8975.0	9550.0	0.5	<5.00	<.50		<1.50			

28153

TABLE J
 RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES FOR THE
 BALLOD PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth (ft)	Uranium-238		Radium-226		Thorium-232		Potassium-40	
East	North		pCi/g \pm 1 sigma		pCi/g \pm 1 sigma		pCi/g \pm 1 sigma		pCi/g \pm 1 sigma	
8375.0	9575.0	0.5	<12.53		.56 +/-	.42	<1.50			
9025.0	9200.0	0.5	<5.68		.36 +/-	.14	.99 +/-	.32		
9025.0	9300.0	1.0	<15.72		<.50		8.03 +/-	1.10		
9025.0	9350.0	0.5	<16.63		.61 +/-	.35	7.25 +/-	1.16		
9025.0	9400.0	0.5	<7.02		.59 +/-	.21	1.74 +/-	.48		
9025.0	9400.0	1.5	<11.23		1.21 +/-	.32	13.08 +/-	1.09		
9025.0	9450.0	1.5	<6.78		.68 +/-	.19	3.67 +/-	.58		
9075.0	9125.0	0.5	<5.00		1.27 +/-	.47	13.58 +/-	1.43		
9075.0	9275.0	0.5	<8.68		<.90		2.27 +/-	.66		
9075.0	9425.0	0.5	<15.22		.40 +/-	.78	<1.50			
9075.0	9525.0	0.5	<18.41		2.49 +/-	.73	9.53 +/-	1.60		
9075.0	9625.0	0.5	627.60 +/-	55.10	<.50		503.30 +/-	9.70		
9110.0	9077.0	2.0			2.30 +/-	.70	14.60 +/-	1.20		8.90 +/- 2.80
9110.0	9077.0	3.0	2.50 +/-	1.60	.40 +/-	.20	.80 +/-	.50		12.50 +/- 1.80
9110.0	9077.0	7.0	<5.10		.50 +/-	.20	.80 +/-	.30		11.80 +/- 1.70
9125.0	9375.0	0.5	<7.07		<.50		<1.67			
9150.0	9200.0	1.0	<9.53		1.12 +/-	.32	7.01 +/-	.70		
9175.0	9100.0	2.0	<27.64		3.82 +/-	.56	19.88 +/-	1.29		
9175.0	9130.0	1.0	<5.00		6.71 +/-	.76	36.84 +/-	2.84		
9175.0	9200.0	1.5	35.27 +/-	10.63	4.69 +/-	.78	34.48 +/-	1.80		
9175.0	9200.0	4.5	43.90 +/-	6.00	4.70 +/-	6.00	44.30 +/-	6.90		
9175.0	9200.0	5.0	17.70 +/-	6.80	4.60 +/-	.30	33.80 +/-	2.90		
9175.0	9200.0	5.5	<16.30		2.30 +/-	.30	13.80 +/-	4.80		
9175.0	9200.0	6.0	11.90 +/- 4.20		2.40 +/-	.40	15.20 +/-	1.30		
9175.0	9200.0	3.5	11.10 +/- 5.70		3.40 +/-	.80	18.10 +/-	1.90		
9175.0	9200.0	3.5	<6.60		.50 +/-	.10	4.20 +/-	.30		
9175.0	9200.0	3.5	<5.90		.50 +/-	.10	1.10 +/-	.10		
9175.0	9200.0	10.0	<6.70		.50 +/-	.20	1.00 +/-	.10		
9175.0	9300.0	2.0	<7.54		<.50		3.99 +/-	.68		

28153

TABLE
 RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES FOR THE
 BALLOD PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth (ft)	Uranium-238 pCi/g \pm 1 sigma	Radium-226		Thorium-232		Potassium-40 pCi/g \pm 1 sigma
East	North			pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	
9225.0	9075.0	0.5	<6.59	.98 +/-	.23	2.02 +/-	.52	
9225.0	9100.0	2.0	<5.00	2.58 +/-	.49	15.26 +/-	1.18	
9225.0	9150.0	2.0	<11.51	.69 +/-	.30	2.21 +/-	.76	
9225.0	9175.0	0.5	<5.00	1.76 +/-	.71	11.13 +/-	1.68	
9225.0	9275.0	0.5	<16.90	1.34 +/-	.33	5.54 +/-	.80	
9225.0	9300.0	1.0	<9.19	<.50		<1.50		
9225.0	9350.0	2.0	<10.42	<1.05		7.04 +/-	.90	
9225.0	9525.0	0.5	<16.52	1.70 +/-	.45	5.25 +/-	1.46	
9225.0	9525.0	0.5	<11.31	.47 +/-	.36	5.76 +/-	.30	
9225.0	9537.0	0.5	<6.02	.70 +/-	.19	2.00 +/-	.39	
9250.0	9175.0	0.5	<13.43	<1.13		6.60 +/-	.86	
9250.0	9325.0	0.5	<5.37	<.06		1.93 +/-	.43	
9250.0	9537.0	0.5	<3.80	.50 +/-	.13	1.04 +/-	.03	
9275.0	9300.0	1.0	12.70 +/- 2.70	1.80 +/-	.10	13.90 +/-	2.30	
9275.0	9300.0	2.0	<15.21	1.20 +/-	.30	4.10 +/-	1.02	
9275.0	9300.0	2.0	21.20 +/- 2.90	2.90 +/-	.50	19.80 +/-	1.80	
9275.0	9300.0	8.5	<6.50	.60 +/-	.10	1.00 +/-	.30	
9275.0	9300.0	9.0	<8.00	.70 +/-	.30	1.40 +/-	.40	
9275.0	9300.0	9.5	<8.20	.90 +/-	.10	<1.40		
9275.0	9300.0	10.0	<8.10	.90 +/-	.20	1.20 +/-	.80	
9275.0	9300.0	10.0	54.20 +/- 17.40	2.70 +/-	.20	100.20 +/-	9.30	
9325.0	9200.0	1.0	<13.80	1.60 +/-	.40	8.50 +/-	2.20	
9325.0	9200.0	2.0	<10.20	1.20 +/-	.30	4.60 +/-	.40	
9325.0	9200.0	8.5	<6.00	.70 +/-	.20	.70 +/-	.10	
9325.0	9200.0	9.0	<5.50	<.80		<1.20		
9325.0	9200.0	9.5	<8.00	1.90 +/-	.30	<1.60		
9325.0	9200.0	10.0	<9.80	<1.20		1.90 +/-	.10	
9325.0	9300.0	2.0	<13.55	<.50		3.35 +/-	.66	
9325.0	9350.0	2.0	<5.00	1.73 +/-	.34	4.01 +/-	.73	
9350.0	9025.0	0.5	<15.61	<.50		2.86 +/-	.81	

28153

TABLE
 RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES FOR THE
 BALLOD PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth (ft)	Uranium-238 pCi/g \pm 1 sigma	Radium-226		Thorium-232		Potassium-40	
East	North			pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma	pCi/g \pm 1 sigma
9350.0	9025.0	0.5	<25.66	6.38 +/-	.73	28.32 +/-	1.91		
9350.0	9075.0	0.5	<13.93	1.24 +/-	.31	3.08 +/-	.58		
9350.0	9175.0	0.5	<10.26	<.50		<1.50			
9375.0	9200.0	2.0	<7.90	.70 +/-	.30	3.70 +/-	.60	11.10 +/-	1.70
9375.0	9200.0	4.0	<7.30	1.80 +/-	.30	3.70 +/-	.50	9.70 +/-	1.70
9375.0	9200.0	5.0		2.80 +/-	.30	17.30 +/-	.90	9.00 +/-	2.00
9375.0	9200.0	6.0	<9.30	1.40 +/-	.40			12.80 +/-	3.00
9375.0	9200.0	8.0	<6.00	.50 +/-	.20			6.80 +/-	2.10
9375.0	9200.0	14.0	<3.60	<.50				10.20 +/-	1.60
9375.0	9200.0	16.0	<5.00	.50 +/-	.20	.90 +/-	.30	12.00 +/-	1.70
9425.0	9150.0	2.5	<9.56	.73 +/-	.32	3.85 +/-	.55		
9475.0	9025.0	0.5	<7.11	.95 +/-	.21	<1.45			
9475.0	9050.0	3.0	<7.90	.90 +/-	.30	1.30 +/-	.40	11.90 +/-	1.90
9475.0	9050.0	4.0	<7.40	.30 +/-	.30			20.30 +/-	2.60
9475.0	9050.0	5.0	<6.10	.90 +/-	.20	1.90 +/-	.40	12.40 +/-	1.80
9475.0	9050.0	6.0	<13.10	1.40 +/-	.40	13.20 +/-	.90	14.90 +/-	2.10
9475.0	9075.0	0.5	<15.17	1.01 +/-	.33	1.96 +/-	.83		
9475.0	9125.0	0.5	<8.12	<1.02		2.49 +/-	.59		
9475.0	9175.0	0.5	<5.00	.97 +/-	.60	1.80 +/-	.52		
9525.0	9150.0	0.5	<5.00	4.47 +/-	.57	71.93 +/-	2.15		
9550.0	9550.0	0.5	<5.00	1.80 +/-	.33	39.01 +/-	1.61		
9575.0	9025.0	0.5	<16.49	<.50		2.33 +/-	.74		

28453

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8537.50	9375.00	4199
8550.00	9375.00	4396
8550.00	9387.50	4161
8562.50	9375.00	4244
8562.50	9387.50	3932
8562.50	9400.00	4595
8575.00	9375.00	4170
8575.00	9387.50	4445
8575.00	9400.00	4198
8575.00	9412.50	4035
8587.50	9375.00	4161
8587.50	9387.50	4104
8587.50	9400.00	4373
8587.50	9412.50	4386
8600.00	9375.00	4438
8600.00	9387.50	4317
8600.00	9400.00	4452
8600.00	9412.50	4419
8600.00	9425.00	8611
8612.50	9375.00	4619
8612.50	9387.50	4458
8612.50	9400.00	4703
8612.50	9412.50	4906
8612.50	9425.00	4315
8625.00	9375.00	4577
8625.00	9387.50	4435
8625.00	9400.00	4831
8625.00	9412.50	4478
8625.00	9425.00	4541
8625.00	9437.50	3501
8637.50	9375.00	5085
8637.50	9387.50	4342
8637.50	9400.00	4980
8637.50	9412.50	4642
8637.50	9425.00	4625
8637.50	9437.50	3806
8650.00	9375.00	4475
8650.00	9387.50	4282
8650.00	9400.00	4818
8650.00	9412.50	4498
8650.00	9425.00	4563
8650.00	9437.50	3329
8662.50	9375.00	4442
8662.50	9387.50	5078

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8662.50	9400.00	4286
8662.50	9412.50	4302
8662.50	9425.00	4218
8662.50	9437.50	3921
8662.50	9450.00	4311
8675.00	9375.00	3945
8675.00	9387.50	4133
8675.00	9400.00	4077
8675.00	9412.50	3881
8675.00	9425.00	4109
8675.00	9437.50	3962
8675.00	9450.00	4211
8687.50	9375.00	4144
8687.50	9387.50	4041
8687.50	9400.00	4642
8687.50	9412.50	4759
8687.50	9425.00	4456
8687.50	9437.50	4221
8687.50	9450.00	5110
8687.50	9462.50	4136
8700.00	9375.00	4429
8700.00	9387.50	4173
8700.00	9400.00	4549
8700.00	9412.50	4295
8700.00	9425.00	3945
8700.00	9437.50	5111
8700.00	9450.00	4992
8700.00	9462.50	4234
8712.50	9375.00	4929
8712.50	9387.50	4148
8712.50	9400.00	4074
8712.50	9412.50	4278
8712.50	9425.00	3861
8712.50	9437.50	3969
8712.50	9450.00	4866
8712.50	9462.50	4991
8725.00	9375.00	4797
8725.00	9387.50	4445
8725.00	9400.00	4320
8725.00	9412.50	4170
8725.00	9425.00	2511
8725.00	9437.50	6335
8725.00	9450.00	6210
8725.00	9462.50	2698
8725.00	9475.00	3231
8725.00	9500.00	4351
8737.50	9375.00	4416
8737.50	9387.50	4465
8737.50	9400.00	4532
8737.50	9412.50	4247
8737.50	9425.00	4312
8737.50	9437.50	6261
8737.50	9450.00	5876

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
8737.50	9462.50	6678
8737.50	9475.00	8990
8737.50	9500.00	5996
8750.00	9375.00	4655
8750.00	9387.50	4214
8750.00	9400.00	4781
8750.00	9412.50	4390
8750.00	9425.00	5061
8750.00	9437.50	6811
8750.00	9450.00	4535
8750.00	9462.50	4911
8750.00	9475.00	4456
8750.00	9487.50	3491
8750.00	9500.00	4951
8750.00	9512.50	5261
8762.50	9375.00	4774
8762.50	9387.50	4453
8762.50	9400.00	4445
8762.50	9412.50	4643
8762.50	9425.00	6703
8762.50	9437.50	9380
8762.50	9450.00	6161
8762.50	9462.50	4979
8762.50	9475.00	4529
8762.50	9487.50	6211
8762.50	9500.00	4719
8762.50	9512.50	5656
8775.00	9375.00	4910
8775.00	9387.50	4316
8775.00	9400.00	4770
8775.00	9412.50	4931
8775.00	9425.00	6303
8775.00	9437.50	5941
8775.00	9450.00	4505
8775.00	9462.50	4637
8775.00	9475.00	4539
8775.00	9487.50	4209
8775.00	9500.00	4877
8775.00	9512.50	7676
8775.00	9525.00	6207
8775.00	9537.50	5516
8787.50	9375.00	4409
8787.50	9387.50	4635
8787.50	9400.00	4543
8787.50	9412.50	4351
8787.50	9425.00	7078
8787.50	9437.50	6568
8787.50	9450.00	5761
8787.50	9462.50	5139
8787.50	9475.00	5666
8787.50	9487.50	5411
8787.50	9500.00	7216
8787.50	9512.50	6999

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8787.50	9525.00	6868
8787.50	9537.50	2629
8800.00	8900.00	5074
8800.00	9375.00	4732
8800.00	9387.50	4285
8800.00	9400.00	4232
8800.00	9412.50	4455
8800.00	9425.00	7256
8800.00	9437.50	6899
8800.00	9450.00	5993
8800.00	9462.50	5729
8800.00	9475.00	5911
8800.00	9487.50	5450
8800.00	9500.00	5399
8800.00	9512.50	6119
8800.00	9525.00	6307
8800.00	9537.50	4414
8800.00	9550.00	3931
8812.50	8912.50	6704
8812.50	8925.00	5951
8812.50	8937.50	6301
8812.50	9375.00	4714
8812.50	9387.50	4280
8812.50	9400.00	4747
8812.50	9412.50	4262
8812.50	9425.00	10136
8812.50	9437.50	7664
8812.50	9450.00	4739
8812.50	9462.50	5614
8812.50	9475.00	6363
8812.50	9487.50	200010
8812.50	9500.00	7214
8812.50	9512.50	5604
8812.50	9525.00	6544
8812.50	9537.50	8313
8812.50	9550.00	7628
8825.00	8900.00	5201
8825.00	8912.50	6624
8825.00	8925.00	6271
8825.00	8937.50	8607
8825.00	8950.00	10539
8825.00	9375.00	4669
8825.00	9387.50	4409
8825.00	9400.00	4943
8825.00	9412.50	4736
8825.00	9425.00	8357
8825.00	9437.50	13216
8825.00	9450.00	8999
8825.00	9462.50	13211
8825.00	9475.00	36810
8825.00	9487.50	12527
8825.00	9500.00	10345
8825.00	9512.50	7663

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
88225.00	95225.00	4805
88225.00	95337.50	5353
88225.00	9550.00	6866
88225.00	9562.50	6815
88337.50	8912.50	4320
88337.50	8925.00	6110
88337.50	8937.50	6343
88337.50	8950.00	5551
88337.50	8962.50	6502
88337.50	9375.00	5592
88337.50	9387.50	5138
88337.50	9400.00	5391
88337.50	9412.50	5107
88337.50	9425.00	7539
88337.50	9437.50	21353
88337.50	9450.00	6652
88337.50	9462.50	15211
88337.50	9475.00	11112
88337.50	9487.50	10017
88337.50	9500.00	6639
88337.50	9512.50	6391
88337.50	9525.00	7764
88337.50	9537.50	6996
88337.50	9550.00	7113
88337.50	9562.50	7215
88337.50	9575.00	3806
8850.00	8925.00	5315
8850.00	8937.50	4309
8850.00	8950.00	6261
8850.00	8962.50	12606
8850.00	8975.00	5442
8850.00	8987.50	6361
8850.00	9000.00	7899
8850.00	9277.50	6001
8850.00	9312.50	4527
8850.00	9337.50	6829
8850.00	9350.00	8597
8850.00	9362.50	6648
8850.00	9375.00	6842
8850.00	9387.50	5485
8850.00	9400.00	5941
8850.00	9412.50	6228
8850.00	9425.00	6211
8850.00	9437.50	7611
8850.00	9450.00	6303
8850.00	9462.50	7300
8850.00	9475.00	9689
8850.00	9487.50	6205
8850.00	9500.00	7303
8850.00	9512.50	8279
8850.00	9525.00	7310
8850.00	9537.50	8478
8850.00	9550.00	9142

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8850.00	9562.50	8275
8850.00	9575.00	2611
8862.50	8925.00	3670
8862.50	8937.50	5320
8862.50	8950.00	5349
8862.50	8962.50	6431
8862.50	8975.00	3459
8862.50	8987.50	4999
8862.50	9000.00	6307
8862.50	9223.75	4549
8862.50	9240.00	4566
8862.50	9252.50	4700
8862.50	9265.00	5268
8862.50	9277.50	5951
8862.50	9300.00	4745
8862.50	9312.50	5953
8862.50	9325.00	5282
8862.50	9337.50	8065
8862.50	9350.00	7426
8862.50	9362.50	7833
8862.50	9375.00	7968
8862.50	9387.50	6536
8862.50	9400.00	7203
8862.50	9412.50	6616
8862.50	9425.00	7167
8862.50	9437.50	7725
8862.50	9450.00	5961
8862.50	9462.50	6911
8862.50	9475.00	7211
8862.50	9487.50	5961
8862.50	9500.00	7105
8862.50	9512.50	8930
8862.50	9525.00	9011
8862.50	9537.50	8431
8862.50	9550.00	8301
8862.50	9562.50	7600
8862.50	9575.00	4799
8862.50	9587.50	5144
8862.50	9600.00	6811
8875.00	8937.50	3985
8875.00	8950.00	7501
8875.00	8962.50	5965
8875.00	8975.00	8487
8875.00	8987.50	3231
8875.00	9000.00	9592
8875.00	9225.00	6075
8875.00	9237.50	4239
8875.00	9240.00	4785
8875.00	9252.50	4311
8875.00	9262.50	9557
8875.00	9265.00	5103
8875.00	9275.00	4048
8875.00	9277.50	5269

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8875.00	9287.50	4969
8875.00	9300.00	6811
8875.00	9312.50	7419
8875.00	9325.00	7576
8875.00	9337.50	7051
8875.00	9350.00	6231
8875.00	9362.50	6835
8875.00	9375.00	8811
8875.00	9387.50	8933
8875.00	9400.00	6455
8875.00	9412.50	6283
8875.00	9425.00	7209
8875.00	9437.50	6656
8875.00	9450.00	7316
8875.00	9462.50	5432
8875.00	9475.00	6267
8875.00	9487.50	7778
8875.00	9500.00	6432
8875.00	9512.50	7111
8875.00	9525.00	8837
8875.00	9537.50	8945
8875.00	9550.00	8931
8875.00	9562.50	7298
8875.00	9575.00	7200
8875.00	9587.50	6699
8875.00	9600.00	6211
8867.50	9337.50	4244
8867.50	9350.00	4847
8867.50	9362.50	7510
8867.50	9375.00	6501
8867.50	9387.50	8979
8867.50	9200.00	5200
8867.50	9212.50	5165
8867.50	9225.00	5166
8867.50	9237.50	5108
8867.50	9240.00	6241
8867.50	9250.00	7501
8867.50	9252.50	5735
8867.50	9262.50	10583
8867.50	9265.00	5622
8867.50	9275.00	6780
8867.50	9277.50	5307
8867.50	9287.50	10979
8867.50	9300.00	10310
8867.50	9312.50	7418
8867.50	9325.00	6035
8867.50	9337.50	5770
8857.50	9350.00	5111
8867.50	9362.50	7418
8867.50	9375.00	7742
8867.50	9387.50	7300
8867.50	9400.00	14424
8867.50	9412.50	8671

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8887.50	9425.00	6708
8887.50	9437.50	5626
8887.50	9450.00	5807
8887.50	9462.50	5907
8887.50	9475.00	4999
8887.50	9487.50	6874
8887.50	9500.00	7891
8887.50	9512.50	7243
8887.50	9525.00	8338
8887.50	9537.50	7692
8887.50	9550.00	7727
8887.50	9562.50	6905
8887.50	9575.00	7372
8887.50	9587.50	7001
8887.50	9600.00	6907
8887.50	9612.50	6800
8900.00	8950.00	4600
8900.00	8962.50	6377
8900.00	8975.00	5505
8900.00	8987.50	6704
8900.00	9000.00	1 5790
8900.00	9175.00	6806
8900.00	9187.50	4961
8900.00	9200.00	6277
8900.00	9212.50	5233
8900.00	9225.00	6487
8900.00	9237.50	5371
8900.00	9240.00	5434
8900.00	9250.00	8451
8900.00	9252.50	5114
8900.00	9262.50	1 0129
8900.00	9265.00	5623
8900.00	9275.00	6290
8900.00	9277.50	4942
8900.00	9287.50	5525
8900.00	9300.00	7927
8900.00	9312.50	6370
8900.00	9325.00	6290
8900.00	9337.50	5814
8900.00	9350.00	5135
8900.00	9362.50	7426
8900.00	9375.00	5577
8900.00	9387.50	7010
8900.00	9400.00	1 7911
8900.00	9412.50	6572
8900.00	9425.00	6303
8900.00	9437.50	5941
8900.00	9450.00	6112
8900.00	9462.50	6211
8900.00	9475.00	6721
8900.00	9487.50	6974
8900.00	9500.00	8545
8900.00	9512.50	9540

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8900.00	9525.00	8900
8900.00	9537.50	8497
8900.00	9550.00	7032
8900.00	9562.50	8328
8900.00	9575.00	7810
8900.00	9587.50	6911
8900.00	9600.00	7839
8900.00	9612.50	7000
8912.50	8962.50	6257
8912.50	8975.00	6780
8912.50	8987.50	5425
8912.50	9000.00	6850
8912.50	9175.00	7301
8912.50	9187.50	7454
8912.50	9200.00	9346
8912.50	9212.50	5983
8912.50	9225.00	6982
8912.50	9237.50	5160
8912.50	9240.00	4349
8912.50	9250.00	5377
8912.50	9252.50	4537
8912.50	9262.50	5382
8912.50	9265.00	4489
8912.50	9275.00	5200
8912.50	9277.50	4366
8912.50	9287.50	6572
8912.50	9300.00	7328
8912.50	9312.50	6330
8912.50	9325.00	4910
8912.50	9337.50	5108
8912.50	9350.00	4996
8912.50	9362.50	6518
8912.50	9375.00	8511
8912.50	9387.50	7568
8912.50	9400.00	9662
8912.50	9412.50	10249
8912.50	9425.00	7073
8912.50	9437.50	6568
8912.50	9450.00	5999
8912.50	9462.50	6331
8912.50	9475.00	6111
8912.50	9487.50	7061
8912.50	9500.00	8535
8912.50	9512.50	9304
8912.50	9525.00	8282
8912.50	9537.50	8033
8912.50	9550.00	8989
8912.50	9562.50	8812
8912.50	9575.00	8924
8912.50	9587.50	9536
8912.50	9600.00	8171
8912.50	9612.50	9040
8925.00	8962.50	5866

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8925.00	8975.00	10472
8925.00	8987.50	9147
8925.00	9000.00	6161
8925.00	9012.50	5213
8925.00	9150.00	7256
8925.00	9162.50	7063
8925.00	9175.00	7813
8925.00	9187.50	6780
8925.00	9200.00	5146
8925.00	9212.50	9317
8925.00	9225.00	6831
8925.00	9237.50	6508
8925.00	9240.00	4661
8925.00	9250.00	7128
8925.00	9252.50	8131
8925.00	9262.50	5742
8925.00	9265.00	4869
8925.00	9275.00	12767
8925.00	9277.50	5261
8925.00	9287.50	12358
8925.00	9300.00	8463
8925.00	9312.50	13304
8925.00	9325.00	11343
8925.00	9337.50	5490
8925.00	9350.00	5566
8925.00	9362.50	6225
8925.00	9375.00	5182
8925.00	9387.50	10249
8925.00	9400.00	9332
8925.00	9412.50	9161
8925.00	9425.00	7256
8925.00	9437.50	6899
8925.00	9450.00	6511
8925.00	9462.50	7256
8925.00	9475.00	5797
8925.00	9487.50	8887
8925.00	9500.00	10950
8925.00	9512.50	11760
8925.00	9525.00	10977
8925.00	9537.50	13320
8925.00	9550.00	12238
8925.00	9562.50	10799
8925.00	9575.00	11581
8925.00	9587.50	10407
8925.00	9600.00	9448
8925.00	9612.50	10821
8937.50	8975.00	7844
8937.50	8987.50	9317
8937.50	9000.00	9231
8937.50	9012.50	7653
8937.50	9125.00	12998
8937.50	9137.50	7979
8937.50	9150.00	7979

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8937.50	9162.50	7110
8937.50	9175.00	5470
8937.50	9187.50	6803
8937.50	9200.00	14637
8937.50	9212.50	12586
8937.50	9225.00	6161
8937.50	9237.50	4831
8937.50	9240.00	3932
8937.50	9250.00	7298
8937.50	9252.50	6841
8937.50	9262.50	6236
8937.50	9265.00	6261
8937.50	9275.00	7353
8937.50	9277.50	5814
8937.50	9287.50	6244
8937.50	9300.00	16086
8937.50	9312.50	12397
8937.50	9325.00	15001
8937.50	9337.50	6757
8937.50	9350.00	5500
8937.50	9362.50	5749
8937.50	9375.00	6572
8937.50	9387.50	6089
8937.50	9400.00	8265
8937.50	9412.50	14029
8937.50	9425.00	10136
8937.50	9437.50	7864
8937.50	9450.00	7661
8937.50	9462.50	7211
8937.50	9475.00	9175
8937.50	9487.50	6623
8937.50	9500.00	13340
8937.50	9512.50	12380
8937.50	9525.00	15931
8937.50	9537.50	15171
8937.50	9550.00	14932
8937.50	9562.50	12713
8937.50	9575.00	12692
8937.50	9587.50	12047
8937.50	9600.00	12392
8937.50	9612.50	15638
8950.00	8975.00	5077
8950.00	8987.50	9773
8950.00	9000.00	10085
8950.00	9012.50	10831
8950.00	9025.00	6428
8950.00	9037.50	6428
8950.00	9050.00	6651
8950.00	9062.50	4738
8950.00	9075.00	5577
8950.00	9087.50	15514
8950.00	9100.00	14339
8950.00	9112.50	13381

28153

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
89950.00	9125.00	9037
89950.00	9137.50	20834
89950.00	9150.00	12501
89950.00	9162.50	13987
89950.00	9175.00	12059
89950.00	9187.50	17392
89950.00	9200.00	6811
89950.00	9212.50	5200
89950.00	9225.00	4837
89950.00	9237.50	4286
89950.00	9250.00	3565
89950.00	9252.50	5292
89950.00	9262.50	4889
89950.00	9265.00	5569
89950.00	9275.00	7445
89950.00	9277.50	5851
89950.00	9287.50	13044
89950.00	9300.00	16443
89950.00	9312.50	17095
89950.00	9322.50	26432
89950.00	9337.50	12793
89950.00	9350.00	6750
89950.00	9362.50	8054
89950.00	9375.00	16484
89950.00	9387.50	8254
89950.00	9400.00	15049
89950.00	9412.50	12369
89950.00	9425.00	8357
89950.00	9437.50	13216
89950.00	9450.00	12611
89950.00	9462.50	12511
89950.00	9475.00	10599
89950.00	9487.50	16666
89950.00	9500.00	13842
89950.00	9512.50	12291
89950.00	9525.00	19547
89950.00	9537.50	18132
89950.00	9550.00	18214
89950.00	9562.50	14410
89950.00	9575.00	13672
89950.00	9587.50	15884
89950.00	9600.00	17692
89950.00	9612.50	16732
89962.50	9627.50	16902
89962.50	9600.00	16305
89962.50	9612.50	116960
89962.50	9625.00	16394
89962.50	9637.50	3748
89962.50	9650.00	14024
89962.50	9662.50	23256
89962.50	9675.00	26567
89962.50	9687.50	19878
89962.50	9100.00	15585

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8962.50	9112.50	17392
8962.50	9125.00	17392
8962.50	9137.50	20762
8962.50	9150.00	4736
8962.50	9162.50	3720
8962.50	9175.00	3638
8962.50	9187.50	3580
8962.50	9200.00	3547
8962.50	9212.50	3930
8962.50	9225.00	4887
8962.50	9237.50	4167
8962.50	9250.00	4560
8962.50	9262.50	4555
8962.50	9275.00	6431
8962.50	9287.50	6029
8962.50	9300.00	5753
8962.50	9312.50	9934
8962.50	9325.00	23167
8962.50	9337.50	11071
8962.50	9350.00	9332
8962.50	9362.50	10742
8962.50	9375.00	7567
8962.50	9387.50	26432
8962.50	9400.00	15385
8962.50	9412.50	35718
8962.50	9425.00	7539
8962.50	9437.50	21353
8962.50	9450.00	20688
8962.50	9462.50	4851
8962.50	9475.00	28511
8962.50	9487.50	19678
8962.50	9500.00	21078
8962.50	9512.50	20016
8962.50	9525.00	20944
8962.50	9537.50	19891
8962.50	9550.00	18038
8962.50	9562.50	18437
8962.50	9575.00	17572
8962.50	9587.50	20369
8962.50	9600.00	17864
8962.50	9612.50	18807
8975.00	9000.00	22738
8975.00	9012.50	15916
8975.00	9025.00	16760
8975.00	9037.50	5928
8975.00	9050.00	14280
8975.00	9062.50	20001
8975.00	9075.00	24001
8975.00	9087.50	19737
8975.00	9100.00	19058
8975.00	9112.50	5301
8975.00	9125.00	4317
8975.00	9137.50	4695

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
8975.00	9150.00	3768
8975.00	9162.50	4033
8975.00	9175.00	4085
8975.00	9187.50	3443
8975.00	9200.00	7472
8975.00	9212.50	7462
8975.00	9225.00	3866
8975.00	9237.50	4623
8975.00	9250.00	4710
8975.00	9262.50	2271
8975.00	9275.00	7043
8975.00	9287.50	6863
8975.00	9300.00	6536
8975.00	9312.50	6363
8975.00	9325.00	12749
8975.00	9337.50	12749
8975.00	9350.00	18072
8975.00	9362.50	5999
8975.00	9375.00	6536
8975.00	9387.50	21274
8975.00	9400.00	12423
8975.00	9412.50	20001
8975.00	9425.00	22222
8975.00	9437.50	23347
8975.00	9450.00	21699
8975.00	9462.50	19685
8975.00	9475.00	15506
8975.00	9487.50	14324
8975.00	9500.00	18789
8975.00	9512.50	17425
8975.00	9525.00	18001
8975.00	9537.50	11268
8975.00	9550.00	14799
8975.00	9562.50	21645
8975.00	9575.00	20217
8975.00	9587.50	14453
8975.00	9600.00	13891
8975.00	9612.50	12247
8975.00	9625.00	523718
8975.00	9637.50	67218
8975.00	9650.00	710321
8987.50	9000.00	42407
8987.50	9012.50	29851
8987.50	9025.00	29587
8987.50	9037.50	5728
8987.50	9050.00	6158
8987.50	9062.50	9014
8987.50	9075.00	5997
8987.50	9087.50	4057
8987.50	9100.00	4828
8987.50	9112.50	4244
8987.50	9125.00	4048
8987.50	9137.50	4598

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
8987.50	9150.00	4595
8987.50	9162.50	3144
8987.50	9175.00	4116
8987.50	9187.50	4102
8987.50	9200.00	4333
8987.50	9212.50	4386
8987.50	9225.00	3917
8987.50	9237.50	4515
8987.50	9250.00	4583
8987.50	9262.50	6618
8987.50	9275.00	7028
8987.50	9287.50	9091
8987.50	9300.00	7445
8987.50	9312.50	9555
8987.50	9325.00	8785
8987.50	9337.50	24292
8987.50	9350.00	28572
8987.50	9362.50	6059
8987.50	9375.00	5999
8987.50	9387.50	8242
8987.50	9400.00	13168
8987.50	9412.50	42489
8987.50	9425.00	68824
8987.50	9437.50	26591
8987.50	9450.00	38716
8987.50	9462.50	27305
8987.50	9475.00	9261
8987.50	9487.50	13908
8987.50	9500.00	17070
8987.50	9512.50	14721
8987.50	9525.00	15456
8987.50	9537.50	18092
8987.50	9550.00	19781
8987.50	9562.50	18431
8987.50	9575.00	22921
8987.50	9587.50	21894
8987.50	9600.00	20427
8987.50	9612.50	10762
8987.50	9625.00	692170
8987.50	9637.50	824780
8987.50	9650.00	821764
8987.50	9662.50	643218
9000.00	9012.50	48908
9000.00	9025.00	28437
9000.00	9037.50	7713
9000.00	9050.00	4361
9000.00	9062.50	5310
9000.00	9075.00	5358
9000.00	9087.50	5971
9000.00	9100.00	6257
9000.00	9112.50	4478
9000.00	9125.00	3968
9000.00	9137.50	4185

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9000.00	9150.00	4317
9000.00	9162.50	4144
9000.00	9175.00	3974
9000.00	9187.50	4963
9000.00	9200.00	4309
9000.00	9212.50	4196
9000.00	9225.00	7093
9000.00	9237.50	5072
9000.00	9250.00	4214
9000.00	9262.50	8996
9000.00	9275.00	5677
9000.00	9287.50	7242
9000.00	9300.00	5421
9000.00	9312.50	6699
9000.00	9325.00	10017
9000.00	9337.50	13954
9000.00	9350.00	40279
9000.00	9362.50	5577
9000.00	9375.00	5572
9000.00	9387.50	5704
9000.00	9400.00	16394
9000.00	9412.50	24897
9000.00	9425.00	35098
9000.00	9437.50	71099
9000.00	9450.00	42611
9000.00	9452.50	32695
9000.00	9475.00	10611
9000.00	9487.50	6905
9000.00	9500.00	21210
9000.00	9512.50	27344
9000.00	9525.00	20885
9000.00	9537.50	18291
9000.00	9550.00	13537
9000.00	9562.50	30764
9000.00	9575.00	12346
9000.00	9587.50	30902
9000.00	9600.00	47562
9000.00	9612.50	10782
9000.00	9625.00	843210
9000.00	9637.50	764298
9000.00	9650.00	732195
9000.00	9662.50	782426
9000.00	9675.00	625372
9012.50	9012.50	21908
9012.50	9025.00	1556
9012.50	9037.50	7561
9012.50	9050.00	33188
9012.50	9062.50	3793
9012.50	9075.00	5894
9012.50	9087.50	4256
9012.50	9100.00	3879
9012.50	9112.50	4173
9012.50	9125.00	3281

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9012.50	9137.50	3108
9012.50	9150.00	3070
9012.50	9162.50	3175
9012.50	9175.00	4751
9012.50	9187.50	4422
9012.50	9200.00	4935
9012.50	9212.50	10518
9012.50	9225.00	7605
9012.50	9237.50	6699
9012.50	9250.00	13136
9012.50	9262.50	7793
9012.50	9275.00	18878
9012.50	9287.50	7673
9012.50	9300.00	12766
9012.50	9312.50	9757
9012.50	9325.00	21740
9012.50	9337.50	21353
9012.50	9350.00	14852
9012.50	9362.50	5634
9012.50	9375.00	5858
9012.50	9387.50	6594
9012.50	9400.00	7644
9012.50	9412.50	10870
9012.50	9425.00	28513
9012.50	9437.50	46154
9012.50	9450.00	29618
9012.50	9462.50	6541
9012.50	9475.00	6131
9012.50	9487.50	5112
9012.50	9500.00	22708
9012.50	9512.50	21070
9012.50	9525.00	27432
9012.50	9537.50	30489
9012.50	9550.00	27478
9012.50	9562.50	100732
9012.50	9575.00	532108
9012.50	9587.50	408271
9012.50	9600.00	200842
9012.50	9612.50	447821
9012.50	9625.00	732104
9012.50	9637.50	682941
9012.50	9650.00	629281
9012.50	9662.50	843782
9012.50	9675.00	738491
9012.50	9687.50	731921
9025.00	9000.00	4632
9025.00	9012.50	16000
9025.00	9025.00	4312
9025.00	9037.50	4216
9025.00	9050.00	2983
9025.00	9062.50	5227
9025.00	9075.00	3553
9025.00	9087.50	3042

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9025.00	9100.00	2943
9025.00	9112.50	4368
9025.00	9125.00	3050
9025.00	9137.50	4435
9025.00	9150.00	10453
9025.00	9162.50	3330
9025.00	9175.00	3743
9025.00	9187.50	3583
9025.00	9200.00	15152
9025.00	9212.50	12245
9025.00	9225.00	5551
9025.00	9237.50	6515
9025.00	9250.00	8572
9025.00	9262.50	6865
9025.00	9275.00	11364
9025.00	9287.50	18127
9025.00	9300.00	20203
9025.00	9312.50	14128
9025.00	9325.00	12475
9025.00	9337.50	21651
9025.00	9350.00	6899
9025.00	9362.50	5525
9025.00	9375.00	6031
9025.00	9387.50	7003
9025.00	9400.00	4799
9025.00	9412.50	5137
9025.00	9425.00	28572
9025.00	9437.50	27975
9025.00	9450.00	26535
9025.00	9462.50	18831
9025.00	9475.00	9697
9025.00	9487.50	10591
9025.00	9500.00	47072
9025.00	9512.50	52843
9025.00	9525.00	50721
9025.00	9537.50	43376
9025.00	9550.00	478219
9025.00	9562.50	531821
9025.00	9575.00	782107
9025.00	9587.50	608540
9025.00	9600.00	407831
9025.00	9612.50	667891
9025.00	9625.00	829142
9025.00	9637.50	732145
9025.00	9650.00	823213
9025.00	9662.50	764921
9025.00	9675.00	840293
9025.00	9687.50	764271
9025.00	9700.00	810732
9037.50	9000.00	9816
9037.50	9012.50	15936
9037.50	9025.00	4829
9037.50	9037.50	4632

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
9037.50	9050.00	2641
9037.50	9062.50	33371
9037.50	9075.00	33842
9037.50	9087.50	3254
9037.50	9100.00	33887
9037.50	9112.50	3016
9037.50	9125.00	3984
9037.50	9137.50	3500
9037.50	9150.00	7557
9037.50	9162.50	4383
9037.50	9175.00	23167
9037.50	9187.50	24592
9037.50	9200.00	23347
9037.50	9212.50	6135
9037.50	9225.00	6296
9037.50	9237.50	6428
9037.50	9250.00	10102
9037.50	9262.50	7803
9037.50	9275.00	11674
9037.50	9287.50	9485
9037.50	9300.00	4972
9037.50	9312.50	5273
9037.50	9325.00	7793
9037.50	9337.50	9804
9037.50	9350.00	6539
9037.50	9362.50	6343
9037.50	9375.00	4089
9037.50	9387.50	3691
9037.50	9400.00	4085
9037.50	9412.50	20340
9037.50	9425.00	7000
9037.50	9437.50	6557
9037.50	9450.00	6876
9037.50	9462.50	9819
9037.50	9475.00	8638
9037.50	9487.50	9053
9037.50	9500.00	38854
9037.50	9512.50	49217
9037.50	9525.00	67349
9037.50	9537.50	62072
9037.50	9550.00	482917
9037.50	9562.50	672010
9037.50	9575.00	847431
9037.50	9587.50	724321
9037.50	9600.00	630489
9037.50	9612.50	721321
9037.50	9625.00	632108
9037.50	9637.50	763218
9037.50	9650.00	778829
9037.50	9662.50	672429
9037.50	9675.00	881479
9037.50	9687.50	810843
9037.50	9700.00	810427

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9037.50	9712.50	637185
9050.00	9000.00	4718
9050.00	9012.50	8672
9050.00	9025.00	2513
9050.00	9037.50	4785
9050.00	9050.00	2700
9050.00	9062.50	3803
9050.00	9075.00	4182
9050.00	9087.50	4041
9050.00	9100.00	4326
9050.00	9112.50	4555
9050.00	9125.00	3772
9050.00	9137.50	3337
9050.00	9150.00	3334
9050.00	9162.50	5455
9050.00	9175.00	24194
9050.00	9187.50	18073
9050.00	9200.00	11798
9050.00	9212.50	6675
9050.00	9225.00	5191
9050.00	9237.50	5111
9050.00	9250.00	15307
9050.00	9262.50	9601
9050.00	9275.00	9902
9050.00	9287.50	12321
9050.00	9300.00	5219
9050.00	9312.50	4508
9050.00	9325.00	5639
9050.00	9337.50	6616
9050.00	9350.00	3353
9050.00	9362.50	3979
9050.00	9375.00	5425
9050.00	9387.50	6308
9050.00	9400.00	5421
9050.00	9412.50	6239
9050.00	9425.00	6473
9050.00	9437.50	13575
9050.00	9450.00	13211
9050.00	9462.50	7979
9050.00	9475.00	26501
9050.00	9487.50	53500
9050.00	9500.00	52980
9050.00	9512.50	47478
9050.00	9525.00	68201
9050.00	9537.50	73040
9050.00	9550.00	542000
9050.00	9562.50	697001
9050.00	9575.00	971338
9050.00	9587.50	897018
9050.00	9600.00	834934
9050.00	9612.50	700342
9050.00	9625.00	738949
9050.00	9637.50	876543

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
9050.00	9650.00	624760
9050.00	9662.50	9216331
9050.00	9675.00	8223372
9050.00	9687.50	8433443
9050.00	9700.00	8216889
9050.00	9712.50	789789
9050.00	9725.00	827943
9062.50	9000.00	8888
9062.50	9012.50	84227
9062.50	9025.00	4435
9062.50	9037.50	5041
9062.50	9050.00	3465
9062.50	9062.50	6515
9062.50	9075.00	12749
9062.50	9087.50	5577
9062.50	9100.00	7762
9062.50	9112.50	19115
9062.50	9125.00	7273
9062.50	9137.50	3283
9062.50	9150.00	5060
9062.50	9162.50	5081
9062.50	9175.00	11765
9062.50	9187.50	5445
9062.50	9200.00	6067
9062.50	9212.50	5525
9062.50	9225.00	5661
9062.50	9237.50	8451
9062.50	9250.00	12932
9062.50	9262.50	11095
9062.50	9275.00	5999
9062.50	9287.50	8119
9062.50	9300.00	4769
9062.50	9312.50	5769
9062.50	9325.00	5530
9062.50	9337.50	3421
9062.50	9350.00	4995
9062.50	9362.50	5792
9062.50	9375.00	6161
9062.50	9387.50	5656
9062.50	9400.00	6667
9062.50	9412.50	7328
9062.50	9425.00	29851
9062.50	9437.50	43166
9062.50	9450.00	18618
9062.50	9462.50	16587
9062.50	9475.00	9281
9062.50	9487.50	6281
9062.50	9500.00	67374
9062.50	9512.50	81459
9062.50	9525.00	82740
9062.50	9537.50	664478
9062.50	9550.00	592107
9062.50	9562.50	847532

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9062.50	9575.00	887632
9062.50	9587.50	732788
9062.50	9600.00	845476
9062.50	9612.50	914843
9062.50	9625.00	837477
9062.50	9637.50	584763
9062.50	9650.00	528272
9062.50	9662.50	843228
9062.50	9675.00	793888
9062.50	9687.50	789890
9062.50	9700.00	917894
9062.50	9712.50	643348
9062.50	9725.00	801678
9062.50	9737.50	764700
9075.00	9000.00	4466
9075.00	9012.50	9123
9075.00	9025.00	2257
9075.00	9037.50	4927
9075.00	9050.00	5485
9075.00	9062.50	10292
9075.00	9075.00	7093
9075.00	9087.50	60299
9075.00	9100.00	54055
9075.00	9112.50	35715
9075.00	9125.00	25317
9075.00	9137.50	9688
9075.00	9150.00	4574
9075.00	9162.50	8734
9075.00	9175.00	9957
9075.00	9187.50	6558
9075.00	9200.00	6336
9075.00	9212.50	5640
9075.00	9225.00	7028
9075.00	9237.50	7875
9075.00	9250.00	8619
9075.00	9262.50	5530
9075.00	9275.00	5396
9075.00	9287.50	4943
9075.00	9300.00	4563
9075.00	9312.50	3632
9075.00	9325.00	4035
9075.00	9337.50	6897
9075.00	9350.00	6773
9075.00	9362.50	6212
9075.00	9375.00	6729
9075.00	9387.50	6411
9075.00	9400.00	6660
9075.00	9412.50	6712
9075.00	9425.00	8772
9075.00	9437.50	6902
9075.00	9450.00	7214
9075.00	9462.50	17631
9075.00	9475.00	6844

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9075.00	9487.50	8329
9075.00	9500.00	61548
9075.00	9512.50	75487
9075.00	9525.00	72349
9075.00	9537.50	76432
9075.00	9550.00	63792
9075.00	9562.50	90003
9075.00	9575.00	74382
9075.00	9587.50	69803
9075.00	9600.00	98047
9075.00	9612.50	80478
9075.00	9625.00	76207
9075.00	9637.50	72849
9075.00	9650.00	67981
9075.00	9662.50	76447
9075.00	9675.00	84443
9075.00	9687.50	73276
9075.00	9700.00	88143
9075.00	9712.50	93129
9075.00	9725.00	89034
9075.00	9737.50	87045
9087.50	9000.00	8312
9087.50	9012.50	8744
9087.50	9025.00	4687
9087.50	9037.50	4437
9087.50	9050.00	5906
9087.50	9062.50	15425
9087.50	9075.00	9274
9087.50	9087.50	7399
9087.50	9100.00	46154
9087.50	9112.50	47620
9087.50	9125.00	30151
9087.50	9137.50	42554
9087.50	9150.00	9385
9087.50	9162.50	6336
9087.50	9175.00	25194
9087.50	9187.50	7529
9087.50	9200.00	5530
9087.50	9212.50	6390
9087.50	9225.00	24292
9087.50	9237.50	12904
9087.50	9250.00	5941
9087.50	9262.50	5550
9087.50	9275.00	5715
9087.50	9287.50	3096
9087.50	9300.00	3515
9087.50	9312.50	3402
9087.50	9325.00	5831
9087.50	9337.50	5408
9087.50	9350.00	6565
9087.50	9362.50	6256
9087.50	9375.00	5912
9087.50	9387.50	6061

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9087.50	9400.00	6630
9087.50	9412.50	8785
9087.50	9425.00	7871
9087.50	9437.50	17211
9087.50	9450.00	12631
9087.50	9462.50	15611
9087.50	9475.00	13212
9087.50	9487.50	10661
9087.50	9500.00	62421
9087.50	9512.50	77895
9087.50	9525.00	71722
9087.50	9537.50	103421
9087.50	9550.00	482178
9087.50	9562.50	799843
9087.50	9575.00	876014
9087.50	9587.50	937822
9087.50	9600.00	887427
9087.50	9612.50	847654
9087.50	9625.00	629743
9087.50	9637.50	884782
9087.50	9650.00	771410
9087.50	9662.50	631932
9087.50	9675.00	800137
9087.50	9687.50	840921
9087.50	9700.00	842842
9087.50	9712.50	817178
9087.50	9725.00	843942
9087.50	9737.50	890080
9100.00	9000.00	4518
9100.00	9012.50	8862
9100.00	9025.00	4612
9100.00	9037.50	4915
9100.00	9050.00	9274
9100.00	9062.50	3897
9100.00	9075.00	13954
9100.00	9087.50	23640
9100.00	9100.00	36810
9100.00	9112.50	40001
9100.00	9125.00	27788
9100.00	9137.50	34681
9100.00	9150.00	34483
9100.00	9162.50	7864
9100.00	9175.00	17392
9100.00	9187.50	7742
9100.00	9200.00	5623
9100.00	9212.50	6985
9100.00	9225.00	7227
9100.00	9237.50	21353
9100.00	9250.00	4717
9100.00	9262.50	3922
9100.00	9275.00	3315
9100.00	9287.50	2538
9100.00	9300.00	5656

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9100.00	9312.50	5219
9100.00	9325.00	5282
9100.00	9337.50	5850
9100.00	9350.00	5435
9100.00	9362.50	5325
9100.00	9375.00	5475
9100.00	9387.50	5603
9100.00	9400.00	5081
9100.00	9412.50	6599
9100.00	9425.00	7271
9100.00	9437.50	6796
9100.00	9450.00	7169
9100.00	9462.50	8676
9100.00	9475.00	10653
9100.00	9487.50	16555
9100.00	9500.00	26397
9100.00	9512.50	39150
9100.00	9525.00	23267
9100.00	9537.50	68558
9100.00	9550.00	70535
9100.00	9562.50	52251
9100.00	9575.00	68751
9100.00	9587.50	67866
9100.00	9600.00	53611
9100.00	9612.50	60026
9100.00	9625.00	85042
9100.00	9637.50	86789
9100.00	9650.00	74321
9100.00	9662.50	62137
9100.00	9675.00	74321
9100.00	9687.50	67821
9100.00	9700.00	73214
9100.00	9712.50	64282
9100.00	9725.00	67218
9112.50	9000.00	8921
9112.50	9012.50	9013
9112.50	9025.00	8456
9112.50	9037.50	4641
9112.50	9050.00	4026
9112.50	9062.50	7319
9112.50	9075.00	10453
9112.50	9087.50	19428
9112.50	9100.00	26201
9112.50	9112.50	17965
9112.50	9125.00	23258
9112.50	9137.50	31151
9112.50	9150.00	19681
9112.50	9162.50	20980
9112.50	9175.00	25642
9112.50	9187.50	13016
9112.50	9200.00	6180
9112.50	9212.50	6829
9112.50	9225.00	7186

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9112.50	9237.50	6675
9112.50	9250.00	3339
9112.50	9262.50	3351
9112.50	9275.00	3377
9112.50	9287.50	6411
9112.50	9300.00	6180
9112.50	9312.50	4512
9112.50	9325.00	4801
9112.50	9337.50	5177
9112.50	9350.00	5515
9112.50	9362.50	5241
9112.50	9375.00	5645
9112.50	9387.50	5572
9112.50	9400.00	5899
9112.50	9412.50	6518
9112.50	9425.00	7390
9112.50	9437.50	6911
9112.50	9450.00	7119
9112.50	9462.50	15509
9112.50	9475.00	9391
9112.50	9487.50	10026
9112.50	9500.00	226991
9112.50	9512.50	239177
9112.50	9525.00	265411
9112.50	9537.50	436911
9112.50	9550.00	628261
9112.50	9562.50	443961
9112.50	9575.00	861231
9112.50	9587.50	626591
9112.50	9600.00	516653
9112.50	9612.50	551619
9112.50	9625.00	810721
9112.50	9637.50	832842
9112.50	9650.00	743789
9112.50	9662.50	621428
9112.50	9675.00	943218
9112.50	9687.50	892184
9112.50	9700.00	876321
9112.50	9712.50	721891
9125.00	9000.00	6116
9125.00	9012.50	8734
9125.00	9025.00	6214
9125.00	9037.50	5146
9125.00	9050.00	7673
9125.00	9062.50	7078
9125.00	9075.00	14899
9125.00	9087.50	12712
9125.00	9100.00	24445
9125.00	9112.50	20135
9125.00	9125.00	18998
9125.00	9137.50	27650
9125.00	9150.00	27150
9125.00	9162.50	21661

TABLE 4

NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
9125.00	9175.00	12932
9125.00	9187.50	5085
9125.00	9200.00	5460
9125.00	9212.50	5634
9125.00	9225.00	6212
9125.00	9237.50	5592
9125.00	9250.00	3032
9125.00	9262.50	6445
9125.00	9275.00	4770
9125.00	9287.50	4560
9125.00	9300.00	7035
9125.00	9312.50	10363
9125.00	9325.00	4935
9125.00	9337.50	3281
9125.00	9350.00	5107
9125.00	9362.50	5336
9125.00	9375.00	6424
9125.00	9387.50	5843
9125.00	9400.00	5195
9125.00	9412.50	6428
9125.00	9425.00	7152
9125.00	9437.50	6780
9125.00	9450.00	6805
9125.00	9462.50	11385
9125.00	9475.00	13622
9125.00	9487.50	18091
9125.00	9500.00	253614
9125.00	9512.50	221629
9125.00	9525.00	296639
9125.00	9537.50	708112
9125.00	9550.00	565651
9125.00	9562.50	516699
9125.00	9575.00	559772
9125.00	9587.50	432111
9125.00	9600.00	870699
9125.00	9612.50	561572
9125.00	9625.00	810721
9125.00	9637.50	763210
9125.00	9650.00	821321
9125.00	9662.50	832182
9125.00	9675.00	921821
9125.00	9687.50	722188
9137.50	9000.00	8264
9137.50	9012.50	8444
9137.50	9025.00	8144
9137.50	9037.50	6616
9137.50	9050.00	20271
9137.50	9062.50	10631
9137.50	9075.00	34884
9137.50	9087.50	51174
9137.50	9100.00	9346
9137.50	9112.50	10170
9137.50	9125.00	8558

TABLE 4

NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9137.50	9137.50	24097
9137.50	9150.00	33334
9137.50	9162.50	11495
9137.50	9175.00	31742
9137.50	9187.50	5753
9137.50	9200.00	5999
9137.50	9212.50	6424
9137.50	9225.00	3561
9137.50	9237.50	3071
9137.50	9250.00	6727
9137.50	9262.50	6775
9137.50	9275.00	4908
9137.50	9287.50	3732
9137.50	9300.00	5222
9137.50	9312.50	4972
9137.50	9325.00	3338
9137.50	9337.50	6330
9137.50	9350.00	5343
9137.50	9362.50	5536
9137.50	9375.00	5081
9137.50	9387.50	5536
9137.50	9400.00	5628
9137.50	9412.50	5546
9137.50	9425.00	6899
9137.50	9437.50	5977
9137.50	9450.00	7100
9137.50	9462.50	12001
9137.50	9475.00	13611
9137.50	9487.50	21611
9137.50	9500.00	90628
9137.50	9512.50	386621
9137.50	9525.00	283392
9137.50	9537.50	327621
9137.50	9550.00	199261
9137.50	9562.50	467373
9137.50	9575.00	739163
9137.50	9587.50	616179
9137.50	9600.00	555691
9137.50	9612.50	686213
9150.00	9000.00	4267
9150.00	9012.50	8890
9150.00	9025.00	4501
9150.00	9037.50	17090
9150.00	9050.00	12330
9150.00	9062.50	17292
9150.00	9075.00	32619
9150.00	9087.50	40279
9150.00	9100.00	18127
9150.00	9112.50	32806
9150.00	9125.00	9161
9150.00	9137.50	10310
9150.00	9150.00	6185
9150.00	9162.50	6937

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9150.00	9175.00	6167
9150.00	9187.50	6180
9150.00	9200.00	6765
9150.00	9212.50	5947
9150.00	9225.00	17392
9150.00	9237.50	10153
9150.00	9250.00	8811
9150.00	9262.50	6244
9150.00	9275.00	5480
9150.00	9287.50	5465
9150.00	9300.00	5470
9150.00	9312.50	5603
9150.00	9325.00	4692
9150.00	9337.50	4218
9150.00	9350.00	4553
9150.00	9362.50	4598
9150.00	9375.00	5411
9150.00	9387.50	5205
9150.00	9400.00	5819
9150.00	9412.50	5814
9150.00	9425.00	6473
9150.00	9437.50	6796
9150.00	9450.00	6561
9150.00	9475.00	23366
9150.00	9487.50	6222
9150.00	9500.00	179261
9150.00	9512.50	212671
9150.00	9525.00	337691
9150.00	9537.50	230011
9150.00	9550.00	168671
9150.00	9562.50	611123
9150.00	9575.00	887651
9150.00	9587.50	331628
9162.50	9000.00	9122
9162.50	9012.50	9137
9162.50	9025.00	4269
9162.50	9037.50	11030
9162.50	9050.00	8939
9162.50	9062.50	5051
9162.50	9075.00	39736
9162.50	9087.50	22814
9162.50	9100.00	41667
9162.50	9112.50	12821
9162.50	9125.00	19428
9162.50	9137.50	34633
9162.50	9150.00	9050
9162.50	9162.50	7916
9162.50	9175.00	11263
9162.50	9187.50	6667
9162.50	9200.00	14185
9162.50	9212.50	106390
9162.50	9225.00	37736
9162.50	9237.50	10601

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9162.50	9250.00	11561
9162.50	9262.50	8345
9162.50	9275.00	4949
9162.50	9287.50	5178
9162.50	9300.00	5593
9162.50	9312.50	3613
9162.50	9325.00	5353
9162.50	9337.50	5719
9162.50	9350.00	4173
9162.50	9362.50	6059
9162.50	9375.00	4355
9162.50	9387.50	5899
9162.50	9400.00	5222
9162.50	9412.50	5634
9162.50	9425.00	7793
9162.50	9437.50	7112
9162.50	9450.00	6112
9162.50	9462.50	5901
9162.50	9475.00	269786
9162.50	9500.00	252812
9162.50	9512.50	263611
9162.50	9525.00	168682
9162.50	9537.50	19687
9162.50	9550.00	261621
9162.50	9562.50	4406
9175.00	9000.00	5119
9175.00	9012.50	4516
9175.00	9025.00	6712
9175.00	9037.50	6154
9175.00	9050.00	43166
9175.00	9062.50	39736
9175.00	9075.00	52422
9175.00	9087.50	49181
9175.00	9100.00	12296
9175.00	9112.50	15001
9175.00	9125.00	22222
9175.00	9137.50	25001
9175.00	9150.00	14564
9175.00	9162.50	14393
9175.00	9175.00	13606
9175.00	9187.50	13857
9175.00	9200.00	66750
9175.00	9212.50	40000
9175.00	9225.00	17752
9175.00	9237.50	17911
9175.00	9250.00	16395
9175.00	9262.50	9203
9175.00	9275.00	3727
9175.00	9287.50	4302
9175.00	9300.00	5866
9175.00	9312.50	5520
9175.00	9325.00	3372
9175.00	9337.50	4740
9175.00	9350.00	

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9175.00	9362.50	5951
9175.00	9375.00	7221
9175.00	9387.50	5229
9175.00	9400.00	5645
9175.00	9412.50	5900
9175.00	9425.00	6537
9175.00	9437.50	8751
9175.00	9500.00	161672
9175.00	9512.50	178691
9175.00	9525.00	239744
9175.00	9537.50	21032
9175.00	9562.50	306717
9187.50	9000.00	8333
9187.50	9012.50	8617
9187.50	9025.00	4751
9187.50	9037.50	31414
9187.50	9050.00	10792
9187.50	9062.50	69590
9187.50	9075.00	52174
9187.50	9087.50	57432
9187.50	9100.00	4677
9187.50	9112.50	45823
9187.50	9125.00	23716
9187.50	9137.50	18319
9187.50	9150.00	226432
9187.50	9162.50	27038
9187.50	9175.00	6977
9187.50	9187.50	8218
9187.50	9200.00	13709
9187.50	9212.50	14536
9187.50	9225.00	21989
9187.50	9237.50	23905
9187.50	9250.00	29127
9187.50	9262.50	17544
9187.50	9275.00	5173
9187.50	9287.50	5613
9187.50	9300.00	6001
9187.50	9312.50	5803
9187.50	9325.00	5515
9187.50	9337.50	5353
9187.50	9350.00	4666
9187.50	9362.50	4808
9187.50	9375.00	5055
9187.50	9387.50	5473
9187.50	9400.00	5628
9187.50	9412.50	5737
9187.50	9425.00	3177
9187.50	9437.50	29127
9187.50	9450.00	8903
9187.50	9500.00	250691
9187.50	9512.50	191582
9187.50	9525.00	681225
9187.50	9537.50	671733

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9200.00	9000.00	4494
9200.00	9012.50	8132
9200.00	9025.00	2319
9200.00	9037.50	30513
9200.00	9050.00	12713
9200.00	9062.50	69770
9200.00	9075.00	68001
9200.00	9087.50	57146
9200.00	9100.00	41541
9200.00	9112.50	56604
9200.00	9125.00	25211
9200.00	9137.50	12321
9200.00	9150.00	5425
9200.00	9162.50	7885
9200.00	9175.00	4458
9200.00	9187.50	3140
9200.00	9200.00	7179
9200.00	9212.50	10811
9200.00	9225.00	20336
9200.00	9237.50	15540
9200.00	9250.00	19231
9200.00	9262.50	21561
9200.00	9275.00	31288
9200.00	9287.50	20930
9200.00	9300.00	8750
9200.00	9312.50	5551
9200.00	9325.00	5245
9200.00	9337.50	5031
9200.00	9350.00	4883
9200.00	9362.50	7409
9200.00	9375.00	5421
9200.00	9387.50	5139
9200.00	9400.00	5326
9200.00	9412.50	5440
9200.00	9425.00	19613
9200.00	9500.00	88531
9200.00	9512.50	96718
9200.00	9525.00	396712
9200.00	9537.50	19425
9212.50	9000.00	9001
9212.50	9012.50	8931
9212.50	9025.00	4495
9212.50	9037.50	26323
9212.50	9050.00	7783
9212.50	9062.50	7180
9212.50	9075.00	57604
9212.50	9087.50	669850
9212.50	9100.00	88950
9212.50	9112.50	46154
9212.50	9125.00	19737
9212.50	9137.50	5758
9212.50	9150.00	4816
9212.50	9162.50	6452

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9212.50	9175.00	8696
9212.50	9187.50	3772
9212.50	9200.00	2875
9212.50	9212.50	5551
9212.50	9225.00	15330
9212.50	9237.50	11390
9212.50	9250.00	18998
9212.50	9262.50	12745
9212.50	9275.00	11606
9212.50	9287.50	15545
9212.50	9300.00	16086
9212.50	9312.50	6350
9212.50	9325.00	4897
9212.50	9337.50	5030
9212.50	9350.00	6428
9212.50	9362.50	6201
9212.50	9375.00	5613
9212.50	9387.50	5485
9212.50	9400.00	5292
9212.50	9412.50	5350
9212.50	9500.00	198687
9212.50	9512.50	446992
9212.50	9525.00	154255
9212.50	9537.50	9298
9224.70	9525.00	11959
9225.00	9000.00	4156
9225.00	9012.50	9012
9225.00	9025.00	4417
9225.00	9037.50	7491
9225.00	9050.00	4323
9225.00	9062.50	60370
9225.00	9075.00	58824
9225.00	9087.50	57572
9225.00	9100.00	44129
9225.00	9112.50	45001
9225.00	9125.00	35939
9225.00	9137.50	5236
9225.00	9150.00	4875
9225.00	9162.50	5764
9225.00	9175.00	5416
9225.00	9187.50	8903
9225.00	9200.00	5334
9225.00	9212.50	6277
9225.00	9225.00	7372
9225.00	9237.50	6043
9225.00	9250.00	7989
9225.00	9262.50	8334
9225.00	9275.00	12794
9225.00	9287.50	21127
9225.00	9300.00	10959
9225.00	9312.50	10017
9225.00	9325.00	5787
9225.00	9337.50	5720

TABLE 4

NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9225.00	9350.00	5254
9225.00	9362.50	5100
9225.00	9375.00	6431
9225.00	9387.50	5977
9225.00	9400.00	5524
9225.00	9412.50	6979
9225.00	9525.00	11959
9225.00	9537.50	9501
9237.20	9525.00	9790
9237.90	9000.00	8560
9237.50	9012.50	8744
9237.50	9025.00	4955
9237.50	9037.50	4492
9237.50	9050.00	4214
9237.50	9062.50	9099
9237.50	9075.00	28170
9237.50	9087.50	332269
9237.50	9100.00	34091
9237.50	9112.50	16305
9237.50	9125.00	25001
9237.50	9137.50	8976
9237.50	9150.00	4984
9237.50	9162.50	5019
9237.50	9175.00	5515
9237.50	9187.50	8634
9237.50	9200.00	10310
9237.50	9212.50	5432
9237.50	9225.00	6727
9237.50	9237.50	7221
9237.50	9250.00	6544
9237.50	9262.50	12196
9237.50	9275.00	12171
9237.50	9287.50	13130
9237.50	9300.00	8523
9237.50	9312.50	13072
9237.50	9325.00	7510
9237.50	9337.50	7273
9237.50	9350.00	11343
9237.50	9362.50	6594
9237.50	9375.00	7143
9249.70	9387.50	12171
9250.00	9525.00	8811
9250.00	9000.00	4604
9250.00	9012.50	8966
9250.00	9025.00	4684
9250.00	9037.50	5237
9250.00	9050.00	3325
9250.00	9062.50	4812
9250.00	9075.00	8220
9250.00	9087.50	14706
9250.00	9100.00	20000
9250.00	9112.50	17658

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9250.00	9125.00	17700
9250.00	9137.50	5530
9250.00	9150.00	5561
9250.00	9162.50	5137
9250.00	9175.00	4505
9250.00	9187.50	4046
9250.00	9200.00	5155
9250.00	9212.50	5753
9250.00	9225.00	4812
9250.00	9237.50	6452
9250.00	9250.00	6428
9250.00	9262.50	5456
9250.00	9275.00	7595
9250.00	9287.50	8824
9250.00	9300.00	9050
9250.00	9312.50	9280
9250.00	9325.00	8065
9250.00	9337.50	7152
9250.00	9350.00	9037
9250.00	9362.50	6277
9250.00	9525.00	6811
9250.00	9537.50	12346
9262.20	9525.00	6648
9262.50	9000.00	8891
9262.50	9012.50	4266
9262.50	9025.00	4311
9262.50	9037.50	3069
9262.50	9050.00	3334
9262.50	9062.50	5808
9262.50	9075.00	5425
9262.50	9087.50	5396
9262.50	9100.00	14743
9262.50	9112.50	7344
9262.50	9125.00	6104
9262.50	9137.50	5634
9262.50	9150.00	5043
9262.50	9162.50	5155
9262.50	9175.00	5173
9262.50	9187.50	4584
9262.50	9200.00	4232
9262.50	9212.50	4261
9262.50	9225.00	5709
9262.50	9237.50	7084
9262.50	9250.00	5803
9262.50	9262.50	8684
9262.50	9275.00	11729
9262.50	9287.50	11674
9262.50	9300.00	8142
9262.50	9312.50	12501
9262.50	9325.00	8265
9262.50	9337.50	7092
9262.50	9350.00	12097
9262.50	9362.50	3163

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9262.50	9525.00	6548
9262.50	9537.50	11195
9274.70	9525.00	7634
9275.00	9000.00	4623
9275.00	9012.50	8684
9275.00	9025.00	5000
9275.00	9037.50	3312
9275.00	9050.00	3363
9275.00	9062.50	5999
9275.00	9075.00	5618
9275.00	9087.50	5203
9275.00	9100.00	4747
9275.00	9112.50	4469
9275.00	9125.00	5470
9275.00	9137.50	5639
9275.00	9150.00	5941
9275.00	9162.50	5367
9275.00	9175.00	4967
9275.00	9187.50	5306
9275.00	9200.00	4574
9275.00	9212.50	6530
9275.00	9225.00	7510
9275.00	9237.50	12921
9275.00	9250.00	19878
9275.00	9262.50	9324
9275.00	9275.00	8427
9275.00	9287.50	16657
9275.00	9300.00	11858
9275.00	9312.50	24591
9275.00	9325.00	7213
9275.00	9337.50	10136
9275.00	9350.00	6423
9275.00	9525.00	7634
9275.00	9537.50	7417
9287.20	9525.00	8237
9287.50	9000.00	4444
9287.50	9012.50	4652
9287.50	9025.00	24490
9287.50	9037.50	3152
9287.50	9050.00	10078
9287.50	9062.50	14564
9287.50	9075.00	5051
9287.50	9087.50	5142
9287.50	9100.00	5417
9287.50	9112.50	3907
9287.50	9125.00	4835
9287.50	9137.50	5200
9287.50	9150.00	5455
9287.50	9162.50	4889
9287.50	9175.00	5151
9287.50	9187.50	5315
9287.50	9200.00	5090
9287.50	9212.50	9317

28152

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9287.50	9225.00	27038
9287.50	9237.50	27618
9287.50	9250.00	25863
9287.50	9262.50	13393
9287.50	9275.00	8956
9287.50	9287.50	7143
9287.50	9300.00	11977
9287.50	9312.50	61420
9287.50	9525.00	5837
9287.50	9537.50	7644
9299.70	9525.00	12059
9300.00	9000.00	4490
9300.00	9012.50	8484
9300.00	9025.00	4024
9300.00	9037.50	4534
9300.00	9050.00	7833
9300.00	9062.50	14815
9300.00	9075.00	7958
9300.00	9087.50	5043
9300.00	9100.00	4793
9300.00	9112.50	4488
9300.00	9125.00	4927
9300.00	9137.50	3990
9300.00	9150.00	5935
9300.00	9162.50	5287
9300.00	9175.00	5470
9300.00	9187.50	4774
9300.00	9200.00	4445
9300.00	9212.50	8451
9300.00	9225.00	35715
9300.00	9237.50	227918
9300.00	9250.00	19355
9300.00	9262.50	10417
9300.00	9275.00	7110
9300.00	9287.50	6565
9300.00	9300.00	6742
9300.00	9312.50	34611
9300.00	9525.00	12059
9300.00	9537.50	12594
9312.20	9525.00	9434
9312.50	9000.00	8899
9312.50	9012.50	10225
9312.50	9025.00	16208
9312.50	9037.50	11688
9312.50	9050.00	7813
9312.50	9062.50	6682
9312.50	9075.00	1112
9312.50	9087.50	5639
9312.50	9100.00	4927
9312.50	9112.50	4837
9312.50	9125.00	4383
9312.50	9137.50	4869
9312.50	9150.00	5900

TABLE 4

NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
93312.50	9162.50	5315
993312.50	9175.00	5401
993312.50	9187.50	4355
993312.50	9200.00	5047
993312.50	9212.50	19428
993312.50	9225.00	30938
993312.50	9237.50	30770
993312.50	9250.00	12553
993312.50	9262.50	8065
993312.50	9275.00	6850
993312.50	9287.50	5791
993312.50	9300.00	18611
993312.50	9312.50	36401
993312.50	9325.00	9434
993312.50	9337.50	14485
993312.50	9350.00	11905
993312.50	9000.00	4472
993312.50	9012.50	7557
993312.50	9025.00	7741
993312.50	9037.50	19629
993312.50	9050.00	7875
993312.50	9062.50	6335
993312.50	9075.00	6773
993312.50	9087.50	6161
993312.50	9100.00	6568
993312.50	9112.50	5305
993312.50	9125.00	5396
993312.50	9137.50	5546
993312.50	9150.00	8523
993312.50	9162.50	11386
993312.50	9175.00	6522
993312.50	9187.50	13794
993312.50	9200.00	13749
993312.50	9212.50	25752
993312.50	9225.00	14128
993312.50	9237.50	10734
993312.50	9250.00	7327
993312.50	9262.50	6428
993312.50	9275.00	5566
993312.50	9287.50	5939
993312.50	9300.00	18751
993312.50	9325.00	11905
993312.50	9337.50	16058
993312.50	9000.00	8855
993312.50	9012.50	18405
993312.50	9025.00	22557
993312.50	9037.50	18323
993312.50	9050.00	7634
993312.50	9062.50	9562
993312.50	9075.00	7527
993312.50	9087.50	6390
993312.50	9100.00	42554
993312.50	9112.50	5546

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9337.50	9125.00	4927
9337.50	9137.50	5477
9337.50	9150.00	12794
9337.50	9162.50	14706
9337.50	9175.00	20203
9337.50	9187.50	27550
9337.50	9200.00	22048
9337.50	9212.50	30157
9337.50	9225.00	51107
9337.50	9237.50	55450
9337.50	9250.00	5675
9337.50	9262.50	5770
9337.50	9275.00	5510
9337.50	9287.50	5770
9337.50	9525.00	1082
9337.50	9537.50	1685
9300.00	9000.00	2518
9300.00	9012.50	2479
9300.00	9025.00	7422
9300.00	9037.50	1919
9300.00	9050.00	1404
9300.00	9062.50	1029
9300.00	9075.00	6043
9300.00	9087.50	7002
9300.00	9100.00	8298
9300.00	9112.50	6270
9300.00	9125.00	5737
9300.00	9137.50	6837
9300.00	9150.00	1807
9300.00	9162.50	2266
9300.00	9175.00	2013
9300.00	9187.50	1635
9300.00	9200.00	4658
9300.00	9212.50	6231
9300.00	9225.00	1040
9300.00	9237.50	5900
9300.00	9250.00	5781
9300.00	9262.50	5310
9300.00	9275.00	6123
9300.00	9525.00	1106
9300.00	9537.50	2245
9300.00	9000.00	4663
9300.00	9012.50	8933
9300.00	9025.00	1138
9300.00	9037.50	1840
9300.00	9050.00	7333
9300.00	9062.50	6487
9300.00	9075.00	6494
9300.00	9087.50	9227
9300.00	9100.00	6865
9300.00	9112.50	7709
9300.00	9125.00	5520
9300.00	9137.50	5530

TABLE 4

NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
9362.50	9150.00	14399
9362.50	9162.50	29704
9362.50	9175.00	5331
9362.50	9187.50	9303
9362.50	9200.00	18634
9362.50	9212.50	8392
9362.50	9225.00	5837
9362.50	9237.50	5639
9362.50	9250.00	6316
9362.50	9262.50	5349
9362.50	9275.00	8175
9362.50	9287.50	7937
9375.00	9000.00	2447
9375.00	9012.50	19481
9375.00	9025.00	8754
9375.00	9037.50	19170
9375.00	9050.00	8381
9375.00	9062.50	5837
9375.00	9075.00	7335
9375.00	9087.50	6142
9375.00	9100.00	5731
9375.00	9112.50	5554
9375.00	9125.00	6154
9375.00	9137.50	16173
9375.00	9150.00	58253
9375.00	9162.50	223810
9375.00	9175.00	15395
9375.00	9187.50	19618
9375.00	9200.00	4570
9375.00	9212.50	6067
9375.00	9225.00	5618
9375.00	9237.50	6448
9375.00	9250.00	19573
9387.50	9000.00	19387
9387.50	9012.50	19191
9387.50	9025.00	114252
9387.50	9037.50	15908
9387.50	9050.00	8186
9387.50	9062.50	5983
9387.50	9075.00	7152
9387.50	9087.50	6192
9387.50	9100.00	5566
9387.50	9112.50	5871
9387.50	9125.00	5742
9387.50	9137.50	14925
9387.50	9150.00	10939
9387.50	9162.50	32787
9387.50	9175.00	7979
9387.50	9187.50	4664
9387.50	9200.00	9010
9387.50	9212.50	4629
9387.50	9225.00	5709
9387.50	9237.50	18751

TABLE 4

NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9400.00	9000.00	7385
9400.00	9012.50	12397
9400.00	9025.00	7252
9400.00	9037.50	9464
9400.00	9050.00	6350
9400.00	9062.50	5912
9400.00	9075.00	7229
9400.00	9087.50	7002
9400.00	9100.00	5899
9400.00	9112.50	6001
9400.00	9125.00	5525
9400.00	9137.50	5480
9400.00	9150.00	8345
9400.00	9162.50	16760
9400.00	9175.00	4908
9400.00	9187.50	4770
9400.00	9200.00	5391
9400.00	9212.50	8621
9400.00	9225.00	6704
9412.50	9000.00	10051
9412.50	9012.50	11862
9412.50	9025.00	8671
9412.50	9037.50	8747
9412.50	9050.00	6283
9412.50	9062.50	7390
9412.50	9075.00	7075
9412.50	9087.50	7693
9412.50	9100.00	7979
9412.50	9112.50	7023
9412.50	9125.00	6667
9412.50	9137.50	28979
9412.50	9150.00	7703
9412.50	9162.50	29279
9412.50	9175.00	113072
9412.50	9187.50	10350
9412.50	9200.00	24692
9412.50	9212.50	28437
9425.00	9000.00	5106
9425.00	9012.50	10620
9425.00	9025.00	4179
9425.00	9037.50	6493
9425.00	9050.00	7344
9425.00	9062.50	6090
9425.00	9075.00	6977
9425.00	9087.50	6699
9425.00	9100.00	7939
9425.00	9112.50	8360
9425.00	9125.00	6945
9425.00	9137.50	10659
9425.00	9150.00	90100
9425.00	9162.50	8671
9425.00	9175.00	12475
9437.50	9000.00	6030

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
94337.50	90112.50	10015
94337.50	90225.00	78335
94337.50	90337.50	84755
94337.50	90550.00	63833
94337.50	90622.50	74933
94337.50	90735.00	64925
94337.50	9087.50	59925
94337.50	9100.00	57311
94337.50	9112.50	22988
94337.50	9125.00	26798
94337.50	9137.50	48000
94337.50	9150.00	50876
94337.50	9162.50	47245
94500.00	9000.00	28005
94500.00	9012.50	87221
94500.00	9025.00	34443
94500.00	9037.50	73004
94500.00	9050.00	59334
94500.00	9062.50	63550
94500.00	9075.00	62242
94500.00	9087.50	59228
94500.00	9100.00	55555
94500.00	9112.50	11709
94500.00	9125.00	32797
94500.00	9137.50	40000
94500.00	9150.00	55555
94500.00	9162.50	63300
94622.50	9000.00	59600
94622.50	9012.50	71110
94622.50	9025.00	65001
94622.50	9037.50	57664
94622.50	9050.00	64666
94622.50	9062.50	51660
94622.50	9075.00	65115
94622.50	9087.50	57004
94622.50	9100.00	53117
94622.50	9112.50	55511
94622.50	9125.00	31251
94622.50	9137.50	40001
94622.50	9150.00	22814
94622.50	9162.50	19618
9475.00	9000.00	4010
9475.00	9012.50	10107
9475.00	9025.00	2740
9475.00	9037.50	59006
9475.00	9050.00	56661
9475.00	9062.50	53991
9475.00	9075.00	5556
9475.00	9087.50	5969
9475.00	9100.00	5770
9475.00	9112.50	3609
9475.00	9125.00	16337
9475.00	9137.50	5260

TABLE 4
 NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
 PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate cpm
East	North	
9475.00	9150.00	20369
9475.00	9162.50	63160
9487.50	9000.00	6483
9487.50	9012.50	11953
9487.50	9025.00	5693
9487.50	9037.50	5310
9487.50	9050.00	5639
9487.50	9062.50	4684
9487.50	9075.00	5319
9487.50	9087.50	5546
9487.50	9100.00	4516
9487.50	9112.50	15519
9487.50	9125.00	10490
9487.50	9137.50	26701
9487.50	9150.00	46512
9487.50	9162.50	34433
9500.00	9000.00	2650
9500.00	9012.50	7143
9500.00	9025.00	3274
9500.00	9037.50	5222
9500.00	9050.00	5470
9500.00	9062.50	4320
9500.00	9075.00	5469
9500.00	9087.50	4495
9500.00	9100.00	4967
9500.00	9112.50	17596
9500.00	9125.00	30304
9500.00	9137.50	48398
9500.00	9150.00	63800
9512.50	9000.00	5500
9512.50	9012.50	5435
9512.50	9025.00	6601
9512.50	9037.50	4342
9512.50	9050.00	5339
9512.50	9062.50	4931
9512.50	9075.00	5207
9512.50	9087.50	5177
9512.50	9100.00	4984
9512.50	9112.50	6254
9512.50	9125.00	26316
9512.50	9137.50	28302
9525.00	9000.00	2586
9525.00	9012.50	3600
9525.00	9025.00	3599
9525.00	9037.50	5653
9525.00	9050.00	5282
9525.00	9062.50	5298
9525.00	9075.00	7344
9525.00	9087.50	5228
9525.00	9100.00	5034
9525.00	9112.50	6067
9525.00	9125.00	15307
9537.50	9000.00	5495

TABLE 4
NEAR SURFACE GAMMA MEASUREMENTS FOR THE BALLOD
PROPERTY, ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		SPA-3 Count Rate
East	North	cpm
95537.50	9012.50	6073
95537.50	9025.50	6994
95537.50	9037.50	6061
95537.50	9050.50	6712
95537.50	9062.50	5173
95537.50	9075.50	8173
95537.50	9087.50	5764
95537.50	9100.50	4774
95537.50	9112.50	5475
95550.00	9000.50	2848
95550.00	9012.50	7076
95550.00	9025.50	4032
95550.00	9037.50	9597
95550.00	9050.50	8931
95550.00	9062.50	5232
95550.00	9075.50	8883
95550.00	9087.50	5715
95550.00	9100.50	4762
95550.00	9112.50	5162
95562.50	9000.50	5814
95562.50	9012.50	6760
95562.50	9025.50	6313
95562.50	9037.50	7337
95562.50	9050.50	4983
95562.50	9062.50	5387
95562.50	9075.50	5624
95562.50	9087.50	5326
95562.50	9100.50	1877
95562.50	9112.50	5055
95575.00	9000.50	2265
95575.00	9012.50	6449
95575.00	9025.50	4223
95575.00	9037.50	4367
95575.00	9050.50	5953
95575.00	9062.50	5155
95575.00	9075.50	5155
95587.50	9000.50	3320
95587.50	9012.50	6695
95587.50	9025.50	2255
95587.50	9037.50	5012
95587.50	9050.50	4959
95600.00	9062.50	4947
95600.00	9000.50	2921
95600.00	9012.50	6775
95600.00	9025.50	2601
95600.00	9037.50	4445
95600.00	9050.50	4374
95612.50	9062.50	4804
95612.50	9000.50	6336
95612.50	9012.50	6475
95612.50	9025.50	2553
95612.50	9037.50	4931
95625.00	9050.50	5769
95625.00	9000.50	2464
95625.00	9012.50	5587
95625.00	9025.50	3303
95637.50	9000.50	4949
95637.50	9012.50	5505
95650.00	9000.50	2677
95650.00	9012.50	5651
95662.50	9000.50	5625

28152

TABLE 5
 GAMMA RADIATION EXPOSURE RATE MEASUREMENTS FOR
 THE BALLOD PROPERTY (1984)

Coordinates		uR/h
East	North	
8600	9400	9
8700	9400	10
8700	9500	12
8800	9400	11
8800	9500	12
8900	9000	12
8900	9200	9
8900	9300	12
8900	9400	16
8900	9500	16
8900	9600	14
9000	9000	8
9000	9100	9
9000	9200	9
9000	9300	11
9000	9400	11
9000	9500	14
9000	9600	5
9050	9600	9
9100	9000	8
9100	9100	3
9100	9200	12
9100	9300	10
9100	9400	13
9100	9500	8
9100	9600	66
9100	9700	13
9200	9000	1
9200	9100	8
9200	9200	44
9200	9200	13
9200	9300	14
9200	9400	11
9200	9500	29
9300	9000	8
9300	9100	8
9300	9200	10
9300	9300	11
9350	9300	15
9400	9300	12
9400	9000	10
9400	9100	12
9400	9200	21
9500	9000	11
9500	9100	12
9600	9000	11
9600	9050	10

TABLE 6

BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
8575.00	9942.00	0	363
8575.00	9942.00	1	363
8575.00	9942.00	2	363
8575.00	9942.00	3	363
8575.00	9942.00	4	363
8575.00	9942.00	5	363
8575.00	9942.00	6	363
8575.00	9942.00	7	363
8575.00	9942.00	8	363
8575.00	9942.00	9	363
8575.00	9942.00	10	363
8575.00	9942.00	11	363
8575.00	9942.00	12	363
8575.00	9942.00	13	363
8575.00	9942.00	14	363
8575.00	9942.00	15	363
8575.00	9942.00	16	363
8575.00	9942.00	17	363
8575.00	9942.00	18	363
8575.00	9942.00	19	363
8575.00	9942.00	20	363
8575.00	9942.00	21	363
8575.00	9942.00	22	363
8575.00	9942.00	23	363
8575.00	9942.00	24	363
8575.00	9942.00	25	363
8575.00	9942.00	26	363
8575.00	9942.00	27	363
8575.00	9942.00	28	363
8575.00	9942.00	29	363
8575.00	9942.00	30	363
8575.00	9942.00	31	363
8575.00	9942.00	32	363
8575.00	9942.00	33	363
8575.00	9942.00	34	363
8575.00	9942.00	35	363
8575.00	9942.00	36	363
8575.00	9942.00	37	363
8575.00	9942.00	38	363
8575.00	9942.00	39	363
8575.00	9942.00	40	363
8575.00	9942.00	41	363
8575.00	9942.00	42	363
8575.00	9942.00	43	363
8575.00	9942.00	44	363
8575.00	9942.00	45	363
8575.00	9942.00	46	363
8575.00	9942.00	47	363
8575.00	9942.00	48	363
8575.00	9942.00	49	363
8575.00	9942.00	50	363

TABLE 6
 BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
 ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
800000	500000	0	111111
800000	500000	1	111111
800000	500000	2	111111
800000	500000	3	111111
800000	500000	4	111111
800000	500000	5	111111
800000	500000	6	111111
800000	500000	7	111111
800000	500000	8	111111
800000	500000	9	111111
800000	500000	10	111111
800000	500000	11	111111
800000	500000	12	111111
800000	500000	13	111111
800000	500000	14	111111
800000	500000	15	111111
800000	500000	16	111111
800000	500000	17	111111
800000	500000	18	111111
800000	500000	19	111111
800000	500000	20	111111
800000	500000	21	111111
800000	500000	22	111111
800000	500000	23	111111
800000	500000	24	111111
800000	500000	25	111111
800000	500000	26	111111
800000	500000	27	111111
800000	500000	28	111111
800000	500000	29	111111
800000	500000	30	111111
800000	500000	31	111111
800000	500000	32	111111
800000	500000	33	111111
800000	500000	34	111111
800000	500000	35	111111
800000	500000	36	111111
800000	500000	37	111111
800000	500000	38	111111
800000	500000	39	111111
800000	500000	40	111111
800000	500000	41	111111
800000	500000	42	111111
800000	500000	43	111111
800000	500000	44	111111
800000	500000	45	111111
800000	500000	46	111111
800000	500000	47	111111
800000	500000	48	111111
800000	500000	49	111111
800000	500000	50	111111
800000	500000	51	111111
800000	500000	52	111111
800000	500000	53	111111
800000	500000	54	111111
800000	500000	55	111111
800000	500000	56	111111
800000	500000	57	111111
800000	500000	58	111111
800000	500000	59	111111
800000	500000	60	111111
800000	500000	61	111111
800000	500000	62	111111
800000	500000	63	111111
800000	500000	64	111111
800000	500000	65	111111
800000	500000	66	111111
800000	500000	67	111111
800000	500000	68	111111
800000	500000	69	111111
800000	500000	70	111111
800000	500000	71	111111
800000	500000	72	111111
800000	500000	73	111111
800000	500000	74	111111
800000	500000	75	111111
800000	500000	76	111111
800000	500000	77	111111
800000	500000	78	111111
800000	500000	79	111111
800000	500000	80	111111
800000	500000	81	111111
800000	500000	82	111111
800000	500000	83	111111
800000	500000	84	111111
800000	500000	85	111111
800000	500000	86	111111
800000	500000	87	111111
800000	500000	88	111111
800000	500000	89	111111
800000	500000	90	111111
800000	500000	91	111111
800000	500000	92	111111
800000	500000	93	111111
800000	500000	94	111111
800000	500000	95	111111
800000	500000	96	111111
800000	500000	97	111111
800000	500000	98	111111
800000	500000	99	111111
800000	500000	100	111111

TABLE 6

BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
990000	920000	10	111
990000	920000	11	111
990000	920000	12	111
990000	920000	13	111
990000	920000	14	111
990000	920000	15	111
990000	920000	16	111
990000	920000	17	111
990000	920000	18	111
990000	920000	19	111
990000	920000	20	111
990000	920000	21	111
990000	920000	22	111
990000	920000	23	111
990000	920000	24	111
990000	920000	25	111
990000	920000	26	111
990000	920000	27	111
990000	920000	28	111
990000	920000	29	111
990000	920000	30	111
990000	920000	31	111
990000	920000	32	111
990000	920000	33	111
990000	920000	34	111
990000	920000	35	111
990000	920000	36	111
990000	920000	37	111
990000	920000	38	111
990000	920000	39	111
990000	920000	40	111
990000	920000	41	111
990000	920000	42	111
990000	920000	43	111
990000	920000	44	111
990000	920000	45	111
990000	920000	46	111
990000	920000	47	111
990000	920000	48	111
990000	920000	49	111
990000	920000	50	111
990000	920000	51	111
990000	920000	52	111
990000	920000	53	111
990000	920000	54	111
990000	920000	55	111
990000	920000	56	111
990000	920000	57	111
990000	920000	58	111
990000	920000	59	111
990000	920000	60	111
990000	920000	61	111
990000	920000	62	111
990000	920000	63	111
990000	920000	64	111
990000	920000	65	111
990000	920000	66	111
990000	920000	67	111
990000	920000	68	111
990000	920000	69	111
990000	920000	70	111
990000	920000	71	111
990000	920000	72	111
990000	920000	73	111
990000	920000	74	111
990000	920000	75	111
990000	920000	76	111
990000	920000	77	111
990000	920000	78	111
990000	920000	79	111
990000	920000	80	111
990000	920000	81	111
990000	920000	82	111
990000	920000	83	111
990000	920000	84	111
990000	920000	85	111
990000	920000	86	111
990000	920000	87	111
990000	920000	88	111
990000	920000	89	111
990000	920000	90	111
990000	920000	91	111
990000	920000	92	111
990000	920000	93	111
990000	920000	94	111
990000	920000	95	111
990000	920000	96	111
990000	920000	97	111
990000	920000	98	111
990000	920000	99	111
990000	920000	100	111

TABLE 6
BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
8975.00	9000.00	4.00	575
8975.00	9000.00	5.00	575
8975.00	9000.00	6.00	575
8975.00	9000.00	7.00	575
8975.00	9000.00	8.00	575
8975.00	9000.00	9.00	575
8975.00	9000.00	10.00	575
8975.00	9000.00	11.00	575
8975.00	9000.00	12.00	575
8975.00	9000.00	13.00	575
8975.00	9000.00	14.00	575
8975.00	9000.00	15.00	575
8975.00	9000.00	16.00	575
8975.00	9000.00	17.00	575
8975.00	9000.00	18.00	575
8975.00	9000.00	19.00	575
8975.00	9000.00	20.00	575
8975.00	9000.00	21.00	575
8975.00	9000.00	22.00	575
8975.00	9000.00	23.00	575
8975.00	9000.00	24.00	575
8975.00	9000.00	25.00	575
8975.00	9000.00	26.00	575
8975.00	9000.00	27.00	575
8975.00	9000.00	28.00	575
8975.00	9000.00	29.00	575
8975.00	9000.00	30.00	575
8975.00	9000.00	31.00	575
8975.00	9000.00	32.00	575
8975.00	9000.00	33.00	575
8975.00	9000.00	34.00	575
8975.00	9000.00	35.00	575
8975.00	9000.00	36.00	575
8975.00	9000.00	37.00	575
8975.00	9000.00	38.00	575
8975.00	9000.00	39.00	575
8975.00	9000.00	40.00	575
8975.00	9000.00	41.00	575
8975.00	9000.00	42.00	575
8975.00	9000.00	43.00	575
8975.00	9000.00	44.00	575
8975.00	9000.00	45.00	575
8975.00	9000.00	46.00	575
8975.00	9000.00	47.00	575
8975.00	9000.00	48.00	575
8975.00	9000.00	49.00	575
8975.00	9000.00	50.00	575
8975.00	9000.00	51.00	575
8975.00	9000.00	52.00	575
8975.00	9000.00	53.00	575
8975.00	9000.00	54.00	575
8975.00	9000.00	55.00	575
8975.00	9000.00	56.00	575
8975.00	9000.00	57.00	575
8975.00	9000.00	58.00	575
8975.00	9000.00	59.00	575
8975.00	9000.00	60.00	575
8975.00	9000.00	61.00	575
8975.00	9000.00	62.00	575
8975.00	9000.00	63.00	575
8975.00	9000.00	64.00	575
8975.00	9000.00	65.00	575
8975.00	9000.00	66.00	575
8975.00	9000.00	67.00	575
8975.00	9000.00	68.00	575
8975.00	9000.00	69.00	575
8975.00	9000.00	70.00	575
8975.00	9000.00	71.00	575
8975.00	9000.00	72.00	575
8975.00	9000.00	73.00	575
8975.00	9000.00	74.00	575
8975.00	9000.00	75.00	575
8975.00	9000.00	76.00	575
8975.00	9000.00	77.00	575
8975.00	9000.00	78.00	575
8975.00	9000.00	79.00	575
8975.00	9000.00	80.00	575
8975.00	9000.00	81.00	575
8975.00	9000.00	82.00	575
8975.00	9000.00	83.00	575
8975.00	9000.00	84.00	575
8975.00	9000.00	85.00	575
8975.00	9000.00	86.00	575
8975.00	9000.00	87.00	575
8975.00	9000.00	88.00	575
8975.00	9000.00	89.00	575
8975.00	9000.00	90.00	575
8975.00	9000.00	91.00	575
8975.00	9000.00	92.00	575
8975.00	9000.00	93.00	575
8975.00	9000.00	94.00	575
8975.00	9000.00	95.00	575
8975.00	9000.00	96.00	575
8975.00	9000.00	97.00	575
8975.00	9000.00	98.00	575
8975.00	9000.00	99.00	575
8975.00	9000.00	100.00	575

TABLE 6
 BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
 ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
990000	920000	10	106
990000	920000	11	106
990000	920000	12	106
990000	920000	13	106
990000	920000	14	106
990000	920000	15	106
990000	920000	16	106
990000	920000	17	106
990000	920000	18	106
990000	920000	19	106
990000	920000	20	106
990000	920000	21	106
990000	920000	22	106
990000	920000	23	106
990000	920000	24	106
990000	920000	25	106
990000	920000	26	106
990000	920000	27	106
990000	920000	28	106
990000	920000	29	106
990000	920000	30	106
990000	920000	31	106
990000	920000	32	106
990000	920000	33	106
990000	920000	34	106
990000	920000	35	106
990000	920000	36	106
990000	920000	37	106
990000	920000	38	106
990000	920000	39	106
990000	920000	40	106
990000	920000	41	106
990000	920000	42	106
990000	920000	43	106
990000	920000	44	106
990000	920000	45	106
990000	920000	46	106
990000	920000	47	106
990000	920000	48	106
990000	920000	49	106
990000	920000	50	106
990000	920000	51	106
990000	920000	52	106
990000	920000	53	106
990000	920000	54	106
990000	920000	55	106
990000	920000	56	106
990000	920000	57	106
990000	920000	58	106
990000	920000	59	106
990000	920000	60	106
990000	920000	61	106
990000	920000	62	106
990000	920000	63	106
990000	920000	64	106
990000	920000	65	106
990000	920000	66	106
990000	920000	67	106
990000	920000	68	106
990000	920000	69	106
990000	920000	70	106
990000	920000	71	106
990000	920000	72	106
990000	920000	73	106
990000	920000	74	106
990000	920000	75	106
990000	920000	76	106
990000	920000	77	106
990000	920000	78	106
990000	920000	79	106
990000	920000	80	106
990000	920000	81	106
990000	920000	82	106
990000	920000	83	106
990000	920000	84	106
990000	920000	85	106
990000	920000	86	106
990000	920000	87	106
990000	920000	88	106
990000	920000	89	106
990000	920000	90	106
990000	920000	91	106
990000	920000	92	106
990000	920000	93	106
990000	920000	94	106
990000	920000	95	106
990000	920000	96	106
990000	920000	97	106
990000	920000	98	106
990000	920000	99	106
990000	920000	100	106

TABLE 6
BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9075.00	9350.00	4.50	14315
9075.00	9350.00	5.50	11135
9075.00	9350.00	6.50	11035
9075.00	9400.00	7.50	17544
9075.00	9400.00	8.50	22223
9075.00	9400.00	9.50	22223
9075.00	9400.00	10.50	21900
9075.00	9400.00	11.50	13111
9075.00	9400.00	12.50	11166
9075.00	9400.00	13.50	12133
9075.00	9450.00	14.50	24255
9075.00	9450.00	15.50	22255
9075.00	9450.00	16.50	17700
9075.00	9500.00	17.50	66371
9075.00	9500.00	18.50	11444
9075.00	9500.00	19.50	15500
9075.00	9500.00	20.50	7093
9075.00	9500.00	21.50	11495
9075.00	9500.00	22.50	6400
9075.00	9500.00	23.50	7445
9085.00	9550.00	24.50	33771
9085.00	9550.00	25.50	11111
9085.00	9550.00	26.50	22222
9085.00	9550.00	27.50	13211
9085.00	9550.00	28.50	13211
9085.00	9550.00	29.50	27544
9085.00	9550.00	30.50	30977
9085.00	9550.00	31.50	15173
9085.00	9550.00	32.50	23344
9085.00	9550.00	33.50	35500
9085.00	9550.00	34.50	40400
9085.00	9550.00	35.50	24692
9085.00	9550.00	36.50	74444
9085.00	9550.00	37.50	15500
9085.00	9550.00	38.50	11111
9085.00	9550.00	39.50	14066
9085.00	9550.00	40.50	32666
9085.00	9550.00	41.50	51777
9085.00	9550.00	42.50	11111
9085.00	9550.00	43.50	13100
9085.00	9550.00	44.50	10777
9085.00	9550.00	45.50	10000
9085.00	9550.00	46.50	10333
9085.00	9550.00	47.50	10433

TABLE 6
BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9125.00	9100.00	5.50	1100
9125.00	9100.00	6.50	1100
9125.00	9100.00	7.50	1200
9125.00	9100.00	8.50	1000
9125.00	9100.00	9.50	1000
9125.00	9100.00	10.50	1000
9125.00	9100.00	11.50	1000
9125.00	9100.00	12.50	1000
9125.00	9100.00	13.50	1000
9125.00	9100.00	14.50	1000
9125.00	9100.00	15.50	1000
9125.00	9100.00	16.50	1000
9125.00	9100.00	17.50	1000
9125.00	9100.00	18.50	1000
9125.00	9100.00	19.50	1000
9125.00	9100.00	20.50	1000
9125.00	9100.00	21.50	1000
9125.00	9100.00	22.50	1000
9125.00	9100.00	23.50	1000
9125.00	9100.00	24.50	1000
9125.00	9100.00	25.50	1000
9125.00	9100.00	26.50	1000
9125.00	9100.00	27.50	1000
9125.00	9100.00	28.50	1000
9125.00	9100.00	29.50	1000
9125.00	9100.00	30.50	1000
9125.00	9100.00	31.50	1000
9125.00	9100.00	32.50	1000
9125.00	9100.00	33.50	1000
9125.00	9100.00	34.50	1000
9125.00	9100.00	35.50	1000
9125.00	9100.00	36.50	1000
9125.00	9100.00	37.50	1000
9125.00	9100.00	38.50	1000
9125.00	9100.00	39.50	1000
9125.00	9100.00	40.50	1000
9125.00	9100.00	41.50	1000
9125.00	9100.00	42.50	1000
9125.00	9100.00	43.50	1000
9125.00	9100.00	44.50	1000
9125.00	9100.00	45.50	1000
9125.00	9100.00	46.50	1000
9125.00	9100.00	47.50	1000
9125.00	9100.00	48.50	1000
9125.00	9100.00	49.50	1000
9125.00	9100.00	50.50	1000
9125.00	9100.00	51.50	1000
9125.00	9100.00	52.50	1000
9125.00	9100.00	53.50	1000
9125.00	9100.00	54.50	1000
9125.00	9100.00	55.50	1000
9125.00	9100.00	56.50	1000
9125.00	9100.00	57.50	1000
9125.00	9100.00	58.50	1000
9125.00	9100.00	59.50	1000
9125.00	9100.00	60.50	1000
9125.00	9100.00	61.50	1000
9125.00	9100.00	62.50	1000
9125.00	9100.00	63.50	1000
9125.00	9100.00	64.50	1000
9125.00	9100.00	65.50	1000
9125.00	9100.00	66.50	1000
9125.00	9100.00	67.50	1000
9125.00	9100.00	68.50	1000
9125.00	9100.00	69.50	1000
9125.00	9100.00	70.50	1000
9125.00	9100.00	71.50	1000
9125.00	9100.00	72.50	1000
9125.00	9100.00	73.50	1000
9125.00	9100.00	74.50	1000
9125.00	9100.00	75.50	1000
9125.00	9100.00	76.50	1000
9125.00	9100.00	77.50	1000
9125.00	9100.00	78.50	1000
9125.00	9100.00	79.50	1000
9125.00	9100.00	80.50	1000
9125.00	9100.00	81.50	1000
9125.00	9100.00	82.50	1000
9125.00	9100.00	83.50	1000
9125.00	9100.00	84.50	1000
9125.00	9100.00	85.50	1000
9125.00	9100.00	86.50	1000
9125.00	9100.00	87.50	1000
9125.00	9100.00	88.50	1000
9125.00	9100.00	89.50	1000
9125.00	9100.00	90.50	1000
9125.00	9100.00	91.50	1000
9125.00	9100.00	92.50	1000
9125.00	9100.00	93.50	1000
9125.00	9100.00	94.50	1000
9125.00	9100.00	95.50	1000
9125.00	9100.00	96.50	1000
9125.00	9100.00	97.50	1000
9125.00	9100.00	98.50	1000
9125.00	9100.00	99.50	1000
9125.00	9100.00	100.50	1000

28152

TABLE 6
BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9125.00	9400.00	6.00	7713
9125.00	9400.00	6.00	7409
9125.00	9400.00	7.00	7844
9125.00	9450.00	00.00	14399
9125.00	9450.00	11.00	16227
9125.00	9450.00	12.00	15533
9125.00	9450.00	13.00	17099
9125.00	9450.00	14.00	16036
9125.00	9450.00	15.00	17292
9125.00	9450.00	16.00	22755
9125.00	9450.00	17.00	22888
9125.00	9450.00	18.00	22170
9125.00	9450.00	19.00	31341
9125.00	9450.00	20.00	11977
9125.00	9450.00	21.00	8572
9125.00	9450.00	22.00	11955
9125.00	9450.00	23.00	9246
9125.00	9450.00	24.00	11473
9125.00	9450.00	25.00	8177
9125.00	9450.00	26.00	7733
9125.00	9450.00	27.00	8133
9125.00	9450.00	28.00	2263
9125.00	9450.00	29.00	1763
9125.00	9450.00	30.00	1516
9125.00	9450.00	31.00	2235
9125.00	9450.00	32.00	2235
9125.00	9450.00	33.00	2235
9125.00	9450.00	34.00	2235
9125.00	9450.00	35.00	2235
9125.00	9450.00	36.00	2235
9125.00	9450.00	37.00	2235
9125.00	9450.00	38.00	2235
9125.00	9450.00	39.00	2235
9125.00	9450.00	40.00	2235
9125.00	9450.00	41.00	2235
9125.00	9450.00	42.00	2235
9125.00	9450.00	43.00	2235
9125.00	9450.00	44.00	2235
9125.00	9450.00	45.00	2235
9125.00	9450.00	46.00	2235
9125.00	9450.00	47.00	2235
9125.00	9450.00	48.00	2235
9125.00	9450.00	49.00	2235
9125.00	9450.00	50.00	2235
9125.00	9450.00	51.00	2235
9125.00	9450.00	52.00	2235
9125.00	9450.00	53.00	2235
9125.00	9450.00	54.00	2235
9125.00	9450.00	55.00	2235
9125.00	9450.00	56.00	2235
9125.00	9450.00	57.00	2235
9125.00	9450.00	58.00	2235
9125.00	9450.00	59.00	2235
9125.00	9450.00	60.00	2235
9125.00	9450.00	61.00	2235
9125.00	9450.00	62.00	2235
9125.00	9450.00	63.00	2235
9125.00	9450.00	64.00	2235
9125.00	9450.00	65.00	2235
9125.00	9450.00	66.00	2235
9125.00	9450.00	67.00	2235
9125.00	9450.00	68.00	2235
9125.00	9450.00	69.00	2235
9125.00	9450.00	70.00	2235
9125.00	9450.00	71.00	2235
9125.00	9450.00	72.00	2235
9125.00	9450.00	73.00	2235
9125.00	9450.00	74.00	2235
9125.00	9450.00	75.00	2235
9125.00	9450.00	76.00	2235
9125.00	9450.00	77.00	2235
9125.00	9450.00	78.00	2235
9125.00	9450.00	79.00	2235
9125.00	9450.00	80.00	2235
9125.00	9450.00	81.00	2235
9125.00	9450.00	82.00	2235
9125.00	9450.00	83.00	2235
9125.00	9450.00	84.00	2235
9125.00	9450.00	85.00	2235
9125.00	9450.00	86.00	2235
9125.00	9450.00	87.00	2235
9125.00	9450.00	88.00	2235
9125.00	9450.00	89.00	2235
9125.00	9450.00	90.00	2235
9125.00	9450.00	91.00	2235
9125.00	9450.00	92.00	2235
9125.00	9450.00	93.00	2235
9125.00	9450.00	94.00	2235
9125.00	9450.00	95.00	2235
9125.00	9450.00	96.00	2235
9125.00	9450.00	97.00	2235
9125.00	9450.00	98.00	2235
9125.00	9450.00	99.00	2235
9125.00	9450.00	100.00	2235

TABLE 6
BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9162.00	99600.00	3	75
9162.00	99600.00	4	32
9162.00	99600.00	5	12
9162.00	99600.00	6	12
9175.00	99550.00	7	12
9175.00	99550.00	8	12
9175.00	99550.00	9	12
9175.00	99550.00	10	12
9175.00	99550.00	11	12
9175.00	99550.00	12	12
9175.00	99550.00	13	12
9175.00	99550.00	14	12
9175.00	99550.00	15	12
9175.00	99550.00	16	12
9175.00	99550.00	17	12
9175.00	99550.00	18	12
9175.00	99550.00	19	12
9175.00	99550.00	20	12
9175.00	99550.00	21	12
9175.00	99550.00	22	12
9175.00	99550.00	23	12
9175.00	99550.00	24	12
9175.00	99550.00	25	12
9175.00	99550.00	26	12
9175.00	99550.00	27	12
9175.00	99550.00	28	12
9175.00	99550.00	29	12
9175.00	99550.00	30	12
9175.00	99550.00	31	12
9175.00	99550.00	32	12
9175.00	99550.00	33	12
9175.00	99550.00	34	12
9175.00	99550.00	35	12
9175.00	99550.00	36	12
9175.00	99550.00	37	12
9175.00	99550.00	38	12
9175.00	99550.00	39	12
9175.00	99550.00	40	12
9175.00	99550.00	41	12
9175.00	99550.00	42	12
9175.00	99550.00	43	12
9175.00	99550.00	44	12
9175.00	99550.00	45	12
9175.00	99550.00	46	12
9175.00	99550.00	47	12
9175.00	99550.00	48	12
9175.00	99550.00	49	12
9175.00	99550.00	50	12
9175.00	99550.00	51	12
9175.00	99550.00	52	12
9175.00	99550.00	53	12
9175.00	99550.00	54	12
9175.00	99550.00	55	12
9175.00	99550.00	56	12
9175.00	99550.00	57	12
9175.00	99550.00	58	12
9175.00	99550.00	59	12
9175.00	99550.00	60	12
9175.00	99550.00	61	12
9175.00	99550.00	62	12
9175.00	99550.00	63	12
9175.00	99550.00	64	12
9175.00	99550.00	65	12
9175.00	99550.00	66	12
9175.00	99550.00	67	12
9175.00	99550.00	68	12
9175.00	99550.00	69	12
9175.00	99550.00	70	12
9175.00	99550.00	71	12
9175.00	99550.00	72	12
9175.00	99550.00	73	12
9175.00	99550.00	74	12
9175.00	99550.00	75	12
9175.00	99550.00	76	12
9175.00	99550.00	77	12
9175.00	99550.00	78	12
9175.00	99550.00	79	12
9175.00	99550.00	80	12
9175.00	99550.00	81	12
9175.00	99550.00	82	12
9175.00	99550.00	83	12
9175.00	99550.00	84	12
9175.00	99550.00	85	12
9175.00	99550.00	86	12
9175.00	99550.00	87	12
9175.00	99550.00	88	12
9175.00	99550.00	89	12
9175.00	99550.00	90	12
9175.00	99550.00	91	12
9175.00	99550.00	92	12
9175.00	99550.00	93	12
9175.00	99550.00	94	12
9175.00	99550.00	95	12
9175.00	99550.00	96	12
9175.00	99550.00	97	12
9175.00	99550.00	98	12
9175.00	99550.00	99	12
9175.00	99550.00	100	12

TABLE 6

BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPEPTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9175.000	9250.000	3.00	13462
9175.000	9225.000	4.00	14714
9175.000	9225.000	5.00	17732
9175.000	9225.000	6.00	11139
9175.000	9225.000	7.00	11139
9175.000	9225.000	8.00	11139
9175.000	9225.000	9.00	11139
9175.000	9225.000	10.00	11139
9175.000	9225.000	11.00	11139
9175.000	9225.000	12.00	11139
9175.000	9225.000	13.00	11139
9175.000	9225.000	14.00	11139
9175.000	9225.000	15.00	11139
9175.000	9225.000	16.00	11139
9175.000	9225.000	17.00	11139
9175.000	9225.000	18.00	11139
9175.000	9225.000	19.00	11139
9175.000	9225.000	20.00	11139
9175.000	9225.000	21.00	11139
9175.000	9225.000	22.00	11139
9175.000	9225.000	23.00	11139
9175.000	9225.000	24.00	11139
9175.000	9225.000	25.00	11139
9175.000	9225.000	26.00	11139
9175.000	9225.000	27.00	11139
9175.000	9225.000	28.00	11139
9175.000	9225.000	29.00	11139
9175.000	9225.000	30.00	11139
9175.000	9225.000	31.00	11139
9175.000	9225.000	32.00	11139
9175.000	9225.000	33.00	11139
9175.000	9225.000	34.00	11139
9175.000	9225.000	35.00	11139
9175.000	9225.000	36.00	11139
9175.000	9225.000	37.00	11139
9175.000	9225.000	38.00	11139
9175.000	9225.000	39.00	11139
9175.000	9225.000	40.00	11139
9175.000	9225.000	41.00	11139
9175.000	9225.000	42.00	11139
9175.000	9225.000	43.00	11139
9175.000	9225.000	44.00	11139
9175.000	9225.000	45.00	11139
9175.000	9225.000	46.00	11139
9175.000	9225.000	47.00	11139
9175.000	9225.000	48.00	11139
9175.000	9225.000	49.00	11139
9175.000	9225.000	50.00	11139
9175.000	9225.000	51.00	11139
9175.000	9225.000	52.00	11139
9175.000	9225.000	53.00	11139
9175.000	9225.000	54.00	11139
9175.000	9225.000	55.00	11139
9175.000	9225.000	56.00	11139
9175.000	9225.000	57.00	11139
9175.000	9225.000	58.00	11139
9175.000	9225.000	59.00	11139
9175.000	9225.000	60.00	11139
9175.000	9225.000	61.00	11139
9175.000	9225.000	62.00	11139
9175.000	9225.000	63.00	11139
9175.000	9225.000	64.00	11139
9175.000	9225.000	65.00	11139
9175.000	9225.000	66.00	11139
9175.000	9225.000	67.00	11139
9175.000	9225.000	68.00	11139
9175.000	9225.000	69.00	11139
9175.000	9225.000	70.00	11139
9175.000	9225.000	71.00	11139
9175.000	9225.000	72.00	11139
9175.000	9225.000	73.00	11139
9175.000	9225.000	74.00	11139
9175.000	9225.000	75.00	11139
9175.000	9225.000	76.00	11139
9175.000	9225.000	77.00	11139
9175.000	9225.000	78.00	11139
9175.000	9225.000	79.00	11139
9175.000	9225.000	80.00	11139
9175.000	9225.000	81.00	11139
9175.000	9225.000	82.00	11139
9175.000	9225.000	83.00	11139
9175.000	9225.000	84.00	11139
9175.000	9225.000	85.00	11139
9175.000	9225.000	86.00	11139
9175.000	9225.000	87.00	11139
9175.000	9225.000	88.00	11139
9175.000	9225.000	89.00	11139
9175.000	9225.000	90.00	11139
9175.000	9225.000	91.00	11139
9175.000	9225.000	92.00	11139
9175.000	9225.000	93.00	11139
9175.000	9225.000	94.00	11139
9175.000	9225.000	95.00	11139
9175.000	9225.000	96.00	11139
9175.000	9225.000	97.00	11139
9175.000	9225.000	98.00	11139
9175.000	9225.000	99.00	11139
9175.000	9225.000	100.00	11139
9200.000	9200.000	101.00	11733
9200.000	9200.000	102.00	15076
9200.000	9200.000	103.00	9954

TABLE 6
 BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
 ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9225.00	9250.00	13	130
9225.00	9225.00	14	134
9225.00	9225.00	15	141
9225.00	9225.00	16	133
9225.00	9225.00	17	138
9225.00	9225.00	18	135
9225.00	9225.00	19	138
9225.00	9225.00	20	136
9225.00	9225.00	21	134
9225.00	9225.00	22	132
9225.00	9225.00	23	130
9225.00	9225.00	24	128
9225.00	9225.00	25	127
9225.00	9225.00	26	126
9225.00	9225.00	27	125
9225.00	9225.00	28	124
9225.00	9225.00	29	123
9225.00	9225.00	30	122
9225.00	9225.00	31	121
9225.00	9225.00	32	120
9225.00	9225.00	33	119
9225.00	9225.00	34	118
9225.00	9225.00	35	117
9225.00	9225.00	36	116
9225.00	9225.00	37	115
9225.00	9225.00	38	114
9225.00	9225.00	39	113
9225.00	9225.00	40	112
9225.00	9225.00	41	111
9225.00	9225.00	42	110
9225.00	9225.00	43	109
9225.00	9225.00	44	108
9225.00	9225.00	45	107
9225.00	9225.00	46	106
9225.00	9225.00	47	105
9225.00	9225.00	48	104
9225.00	9225.00	49	103
9225.00	9225.00	50	102
9225.00	9225.00	51	101
9225.00	9225.00	52	100
9225.00	9225.00	53	99
9225.00	9225.00	54	98
9225.00	9225.00	55	97
9225.00	9225.00	56	96
9225.00	9225.00	57	95
9225.00	9225.00	58	94
9225.00	9225.00	59	93
9225.00	9225.00	60	92
9225.00	9225.00	61	91
9225.00	9225.00	62	90
9225.00	9225.00	63	89
9225.00	9225.00	64	88
9225.00	9225.00	65	87
9225.00	9225.00	66	86
9225.00	9225.00	67	85
9225.00	9225.00	68	84
9225.00	9225.00	69	83
9225.00	9225.00	70	82
9225.00	9225.00	71	81
9225.00	9225.00	72	80
9225.00	9225.00	73	79
9225.00	9225.00	74	78
9225.00	9225.00	75	77
9225.00	9225.00	76	76
9225.00	9225.00	77	75
9225.00	9225.00	78	74
9225.00	9225.00	79	73
9225.00	9225.00	80	72
9225.00	9225.00	81	71
9225.00	9225.00	82	70
9225.00	9225.00	83	69
9225.00	9225.00	84	68
9225.00	9225.00	85	67
9225.00	9225.00	86	66
9225.00	9225.00	87	65
9225.00	9225.00	88	64
9225.00	9225.00	89	63
9225.00	9225.00	90	62
9225.00	9225.00	91	61
9225.00	9225.00	92	60
9225.00	9225.00	93	59
9225.00	9225.00	94	58
9225.00	9225.00	95	57
9225.00	9225.00	96	56
9225.00	9225.00	97	55
9225.00	9225.00	98	54
9225.00	9225.00	99	53
9225.00	9225.00	100	52
9225.00	9225.00	101	51
9225.00	9225.00	102	50
9225.00	9225.00	103	49
9225.00	9225.00	104	48
9225.00	9225.00	105	47
9225.00	9225.00	106	46
9225.00	9225.00	107	45
9225.00	9225.00	108	44
9225.00	9225.00	109	43
9225.00	9225.00	110	42
9225.00	9225.00	111	41
9225.00	9225.00	112	40
9225.00	9225.00	113	39
9225.00	9225.00	114	38
9225.00	9225.00	115	37
9225.00	9225.00	116	36
9225.00	9225.00	117	35
9225.00	9225.00	118	34
9225.00	9225.00	119	33
9225.00	9225.00	120	32
9225.00	9225.00	121	31
9225.00	9225.00	122	30
9225.00	9225.00	123	29
9225.00	9225.00	124	28
9225.00	9225.00	125	27
9225.00	9225.00	126	26
9225.00	9225.00	127	25
9225.00	9225.00	128	24
9225.00	9225.00	129	23
9225.00	9225.00	130	22
9225.00	9225.00	131	21
9225.00	9225.00	132	20
9225.00	9225.00	133	19
9225.00	9225.00	134	18
9225.00	9225.00	135	17
9225.00	9225.00	136	16
9225.00	9225.00	137	15
9225.00	9225.00	138	14
9225.00	9225.00	139	13
9225.00	9225.00	140	12
9225.00	9225.00	141	11
9225.00	9225.00	142	10
9225.00	9225.00	143	9
9225.00	9225.00	144	8
9225.00	9225.00	145	7
9225.00	9225.00	146	6
9225.00	9225.00	147	5
9225.00	9225.00	148	4
9225.00	9225.00	149	3
9225.00	9225.00	150	2
9225.00	9225.00	151	1

28153

TABLE 6
 BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
 ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
99	92	7	3
99	92	8	3
99	92	9	3
99	92	10	3
99	92	11	3
99	92	12	3
99	92	13	3
99	92	14	3
99	92	15	3
99	92	16	3
99	92	17	3
99	92	18	3
99	92	19	3
99	92	20	3
99	92	21	3
99	92	22	3
99	92	23	3
99	92	24	3
99	92	25	3
99	92	26	3
99	92	27	3
99	92	28	3
99	92	29	3
99	92	30	3
99	92	31	3
99	92	32	3
99	92	33	3
99	92	34	3
99	92	35	3
99	92	36	3
99	92	37	3
99	92	38	3
99	92	39	3
99	92	40	3
99	92	41	3
99	92	42	3
99	92	43	3
99	92	44	3
99	92	45	3
99	92	46	3
99	92	47	3
99	92	48	3
99	92	49	3
99	92	50	3
99	92	51	3
99	92	52	3
99	92	53	3
99	92	54	3
99	92	55	3
99	92	56	3
99	92	57	3
99	92	58	3
99	92	59	3
99	92	60	3
99	92	61	3
99	92	62	3
99	92	63	3
99	92	64	3
99	92	65	3
99	92	66	3
99	92	67	3
99	92	68	3
99	92	69	3
99	92	70	3
99	92	71	3
99	92	72	3
99	92	73	3
99	92	74	3
99	92	75	3
99	92	76	3
99	92	77	3
99	92	78	3
99	92	79	3
99	92	80	3
99	92	81	3
99	92	82	3
99	92	83	3
99	92	84	3
99	92	85	3
99	92	86	3
99	92	87	3
99	92	88	3
99	92	89	3
99	92	90	3
99	92	91	3
99	92	92	3
99	92	93	3
99	92	94	3
99	92	95	3
99	92	96	3
99	92	97	3
99	92	98	3
99	92	99	3
99	92	100	3

TABLE 6
BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
99425.00	92000.00	3	110
99425.00	92000.00	4	110
99425.00	92000.00	5	110
99425.00	92000.00	6	110
99425.00	92000.00	7	110
99425.00	92000.00	8	110
99425.00	92000.00	9	110
99425.00	92000.00	10	110
99425.00	92000.00	11	110
99425.00	92000.00	12	110
99425.00	92000.00	13	110
99425.00	92000.00	14	110
99425.00	92000.00	15	110
99425.00	92000.00	16	110
99425.00	92000.00	17	110
99425.00	92000.00	18	110
99425.00	92000.00	19	110
99425.00	92000.00	20	110
99425.00	92000.00	21	110
99425.00	92000.00	22	110
99425.00	92000.00	23	110
99425.00	92000.00	24	110
99425.00	92000.00	25	110
99425.00	92000.00	26	110
99425.00	92000.00	27	110
99425.00	92000.00	28	110
99425.00	92000.00	29	110
99425.00	92000.00	30	110
99425.00	92000.00	31	110
99425.00	92000.00	32	110
99425.00	92000.00	33	110
99425.00	92000.00	34	110
99425.00	92000.00	35	110
99425.00	92000.00	36	110
99425.00	92000.00	37	110
99425.00	92000.00	38	110
99425.00	92000.00	39	110
99425.00	92000.00	40	110
99425.00	92000.00	41	110
99425.00	92000.00	42	110
99425.00	92000.00	43	110
99425.00	92000.00	44	110
99425.00	92000.00	45	110
99425.00	92000.00	46	110
99425.00	92000.00	47	110
99425.00	92000.00	48	110
99425.00	92000.00	49	110
99425.00	92000.00	50	110
99425.00	92000.00	51	110
99425.00	92000.00	52	110
99425.00	92000.00	53	110
99425.00	92000.00	54	110
99425.00	92000.00	55	110
99425.00	92000.00	56	110
99425.00	92000.00	57	110
99425.00	92000.00	58	110
99425.00	92000.00	59	110
99425.00	92000.00	60	110
99425.00	92000.00	61	110
99425.00	92000.00	62	110
99425.00	92000.00	63	110
99425.00	92000.00	64	110
99425.00	92000.00	65	110
99425.00	92000.00	66	110
99425.00	92000.00	67	110
99425.00	92000.00	68	110
99425.00	92000.00	69	110
99425.00	92000.00	70	110
99425.00	92000.00	71	110
99425.00	92000.00	72	110
99425.00	92000.00	73	110
99425.00	92000.00	74	110
99425.00	92000.00	75	110
99425.00	92000.00	76	110
99425.00	92000.00	77	110
99425.00	92000.00	78	110
99425.00	92000.00	79	110
99425.00	92000.00	80	110
99425.00	92000.00	81	110
99425.00	92000.00	82	110
99425.00	92000.00	83	110
99425.00	92000.00	84	110
99425.00	92000.00	85	110
99425.00	92000.00	86	110
99425.00	92000.00	87	110
99425.00	92000.00	88	110
99425.00	92000.00	89	110
99425.00	92000.00	90	110
99425.00	92000.00	91	110
99425.00	92000.00	92	110
99425.00	92000.00	93	110
99425.00	92000.00	94	110
99425.00	92000.00	95	110
99425.00	92000.00	96	110
99425.00	92000.00	97	110
99425.00	92000.00	98	110
99425.00	92000.00	99	110
99425.00	92000.00	100	110

TABLE 6
BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9475.00	9175.00	10	103
9475.00	9175.00	11	103
9475.00	9175.00	12	103
9475.00	9175.00	13	103
9475.00	9175.00	14	103
9475.00	9175.00	15	103
9475.00	9175.00	16	103
9475.00	9175.00	17	103
9475.00	9175.00	18	103
9475.00	9175.00	19	103
9475.00	9175.00	20	103
9475.00	9175.00	21	103
9475.00	9175.00	22	103
9475.00	9175.00	23	103
9475.00	9175.00	24	103
9475.00	9175.00	25	103
9475.00	9175.00	26	103
9475.00	9175.00	27	103
9475.00	9175.00	28	103
9475.00	9175.00	29	103
9475.00	9175.00	30	103
9475.00	9175.00	31	103
9475.00	9175.00	32	103
9475.00	9175.00	33	103
9475.00	9175.00	34	103
9475.00	9175.00	35	103
9475.00	9175.00	36	103
9475.00	9175.00	37	103
9475.00	9175.00	38	103
9475.00	9175.00	39	103
9475.00	9175.00	40	103
9475.00	9175.00	41	103
9475.00	9175.00	42	103
9475.00	9175.00	43	103
9475.00	9175.00	44	103
9475.00	9175.00	45	103
9475.00	9175.00	46	103
9475.00	9175.00	47	103
9475.00	9175.00	48	103
9475.00	9175.00	49	103
9475.00	9175.00	50	103
9475.00	9175.00	51	103
9475.00	9175.00	52	103
9475.00	9175.00	53	103
9475.00	9175.00	54	103
9475.00	9175.00	55	103
9475.00	9175.00	56	103
9475.00	9175.00	57	103
9475.00	9175.00	58	103
9475.00	9175.00	59	103
9475.00	9175.00	60	103
9475.00	9175.00	61	103
9475.00	9175.00	62	103
9475.00	9175.00	63	103
9475.00	9175.00	64	103
9475.00	9175.00	65	103
9475.00	9175.00	66	103
9475.00	9175.00	67	103
9475.00	9175.00	68	103
9475.00	9175.00	69	103
9475.00	9175.00	70	103
9475.00	9175.00	71	103
9475.00	9175.00	72	103
9475.00	9175.00	73	103
9475.00	9175.00	74	103
9475.00	9175.00	75	103
9475.00	9175.00	76	103
9475.00	9175.00	77	103
9475.00	9175.00	78	103
9475.00	9175.00	79	103
9475.00	9175.00	80	103
9475.00	9175.00	81	103
9475.00	9175.00	82	103
9475.00	9175.00	83	103
9475.00	9175.00	84	103
9475.00	9175.00	85	103
9475.00	9175.00	86	103
9475.00	9175.00	87	103
9475.00	9175.00	88	103
9475.00	9175.00	89	103
9475.00	9175.00	90	103
9475.00	9175.00	91	103
9475.00	9175.00	92	103
9475.00	9175.00	93	103
9475.00	9175.00	94	103
9475.00	9175.00	95	103
9475.00	9175.00	96	103
9475.00	9175.00	97	103
9475.00	9175.00	98	103
9475.00	9175.00	99	103
9475.00	9175.00	100	103

TABLE 6
 BOREHOLE GAMMA LOGGING RESULTS FOR THE BALLOD PROPERTY,
 ROCHELLE PARK, NEW JERSEY (1984)

Coordinates		Depth Feet	SPA-3 Count Rate cpm
East	North		
9575.00	9000.00	1	11263
9575.00	9000.00	2	11276
9575.00	9000.00	3	11329
9575.00	9000.00	4	11339
9575.00	9000.00	5	11355
9575.00	9000.00	6	11374
9575.00	9000.00	7	11334
9575.00	9000.00	8	11265
9575.00	9000.00	9	11207
9575.00	9000.00	10	11140
9575.00	9000.00	11	11090
9575.00	9000.00	12	11163
9575.00	9000.00	13	11093
9575.00	9000.00	14	11077
9575.00	9000.00	15	11099
9575.00	9000.00	16	11099
9575.00	9000.00	17	11099
9575.00	9000.00	18	11099
9575.00	9000.00	19	11099
9575.00	9000.00	20	11099
9575.00	9000.00	21	11099
9575.00	9000.00	22	11099
9575.00	9000.00	23	11099
9575.00	9000.00	24	11099
9575.00	9000.00	25	11099
9575.00	9000.00	26	11099
9575.00	9000.00	27	11099
9575.00	9000.00	28	11099
9575.00	9000.00	29	11099
9575.00	9000.00	30	11099
9575.00	9000.00	31	11099
9575.00	9000.00	32	11099
9575.00	9000.00	33	11099
9575.00	9000.00	34	11099
9575.00	9000.00	35	11099
9575.00	9000.00	36	11099
9575.00	9000.00	37	11099
9575.00	9000.00	38	11099
9575.00	9000.00	39	11099
9575.00	9000.00	40	11099
9575.00	9000.00	41	11099
9575.00	9000.00	42	11099
9575.00	9000.00	43	11099
9575.00	9000.00	44	11099
9575.00	9000.00	45	11099
9575.00	9000.00	46	11099
9575.00	9000.00	47	11099
9575.00	9000.00	48	11099
9575.00	9000.00	49	11099
9575.00	9000.00	50	11099
9575.00	9000.00	51	11099
9575.00	9000.00	52	11099
9575.00	9000.00	53	11099
9575.00	9000.00	54	11099
9575.00	9000.00	55	11099
9575.00	9000.00	56	11099
9575.00	9000.00	57	11099
9575.00	9000.00	58	11099
9575.00	9000.00	59	11099
9575.00	9000.00	60	11099
9575.00	9000.00	61	11099
9575.00	9000.00	62	11099
9575.00	9000.00	63	11099
9575.00	9000.00	64	11099
9575.00	9000.00	65	11099
9575.00	9000.00	66	11099
9575.00	9000.00	67	11099
9575.00	9000.00	68	11099
9575.00	9000.00	69	11099
9575.00	9000.00	70	11099
9575.00	9000.00	71	11099
9575.00	9000.00	72	11099
9575.00	9000.00	73	11099
9575.00	9000.00	74	11099
9575.00	9000.00	75	11099
9575.00	9000.00	76	11099
9575.00	9000.00	77	11099
9575.00	9000.00	78	11099
9575.00	9000.00	79	11099
9575.00	9000.00	80	11099
9575.00	9000.00	81	11099
9575.00	9000.00	82	11099
9575.00	9000.00	83	11099
9575.00	9000.00	84	11099
9575.00	9000.00	85	11099
9575.00	9000.00	86	11099
9575.00	9000.00	87	11099
9575.00	9000.00	88	11099
9575.00	9000.00	89	11099
9575.00	9000.00	90	11099
9575.00	9000.00	91	11099
9575.00	9000.00	92	11099
9575.00	9000.00	93	11099
9575.00	9000.00	94	11099
9575.00	9000.00	95	11099
9575.00	9000.00	96	11099
9575.00	9000.00	97	11099
9575.00	9000.00	98	11099
9575.00	9000.00	99	11099
9575.00	9000.00	100	11099

TABLE 7
 SURFACE WATER SAMPLE ANALYSES RESULTS FOR THE
 BALLOD PROPERTY, ROCHELLE PARK, NEW JERSEY
 (1984)

<u>Coordinates</u>		Dissolved	Suspended
East	North	Gross Alpha	Gross Alpha
		pCi/l \pm 2 sigma	pCi/l \pm 2 sigma
9000.0	9400.0	30.00 +/- 10.00	110.00 +/- 40.00
9025.0	9300.0	20.00 +/- 10.00	<10.00
9250.0	9175.0	30.00 +/- 10.00	80.00 +/- 30.00
9250.0	9200.0	30.00 +/- 10.00	<10.00

APPENDIX A
ANALYTICAL RESULTS
FOR
PRIORITY POLLUTANTS

28153



EAL Corporation

2030 Wright Avenue
 Richmond, California 94804
 (415) 235-2633
 (TWX) 910-382-8132

Eberline Instrument Corp.
 Jackson Plaza Tower
 800 Oak Ridge Turnpike
 Oak Ridge, TN 37830
 Attn: Fred Haywood

May 8, 1985
 Samples Received: 4/19/85
 EAL W.O. No.: 1777-64
 Purchase Order No.: 2267PH

BALLOD EP TOXICITY RESULTS

EAL	Customer	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L
1777-64-1	#3 Composite	<0.1	0.2	<0.01	<0.01
1777-64-2	#2 Composite	<0.1	0.6	<0.01	<0.01
1777-64-3	#6 Composite	<0.1	0.1	<0.01	<0.01
1777-64-4	#1 Composite	<0.1	<0.1	<0.01	<0.01

EAL	Customer	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L
1777-64-1	#3 Composite	<0.05	<0.004	<1	<0.01
1777-64-2	#2 Composite	<0.05	<0.004	<1	<0.01
1777-64-3	#6 Composite	<0.05	<0.004	<1	<0.01
1777-64-4	#1 Composite	<0.05	<0.004	<1	<0.01


 George E. Dunstan
 Manager, Hazardous Waste Programs

GED/dss

28153

Eberline Instrument
Attn: Fred Haywood

May 8, 1985
page 2

EP TOXICITY RESULTS

EAL	Customer	Endrin mg/L	Lindane mg/L	Methoxychlor mg/L
1777-64-1	#3 Composite	<0.001	<0.001	<0.01
1777-64-2	#2 Composite	<0.001	<0.001	<0.01
1777-64-3	#6 Composite	<0.001	<0.001	<0.01
1777-64-4	#1 Composite	<0.001	<0.001	<0.01

EAL	Customer	Toxaphene mg/L	2,4-D mg/L	2,4,5-TP Silvex mg/L
1777-64-1	#3 Composite	<0.1	<0.001	<0.001
1777-64-2	#2 Composite	<0.1	<0.001	<0.001
1777-64-3	#6 Composite	<0.1	<0.001	<0.001
1777-64-4	#1 Composite	<0.1	<0.001	<0.001

EAL	Customer	Cyanide mg/kg	pH	Asbestos (%)
1777-64-9	#3 Composite	<0.2	6.7	<1
1777-64-10	#2 Composite	<0.2	5.4	<1
1777-64-11	#6 Composite	<0.2	7.0	<1
1777-64-12	#1 Composite	<0.2	7.1	<1

EAL	Customer	Reactivity	Ignitability
1777-64-9	#3 Composite	(1)	(3)
1777-64-10	#2 Composite	(2)	(3)
1777-64-11	#6 Composite	(2)	(3)
1777-64-12	#1 Composite	(2)	(3)

- (1) The sample emits carbon dioxide when treated with acid, but do not emit any hydrogen sulfide or hydrogen cyanide. The sample is not classed as reactive.
- (2) These soil samples do not react with water or with alkali or with acid. These samples are not classed as reactive.
- (3) These soil samples are not ignitable when subjected to friction, moisture, or open flame, and as such are not classified as ignitable.

Eberline Instrument
EAL W.O. No.: 1777-64

May 8, 1985

PRIORITY POLLUTANT METALS

EAL	Customer	Chromium mg/kg	Copper mg/kg	Nickel mg/kg
1777-64-9	#3 Composite	48	21	<8
1777-64-10	#2 Composite	4	5	<7
1777-64-11	#6 Composite	14	11	<8
1777-64-12	#1 Composite	22	24	<8

EAL	Customer	Lead mg/kg	Antimony mg/kg	Zinc mg/kg	Arsenic mg/kg
1777-64-9	#3 Composite	21	<83	6	<21
1777-64-10	#2 Composite	<9	<74	7	<19
1777-64-11	#6 Composite	<10	<80	5	<20
1777-64-12	#1 Composite	38	<80	10	<20

EAL	Customer	Silver mg/kg	Beryllium mg/kg	Cadmium mg/kg
1777-64-9	#3 Composite	<0.6	0.4	2
1777-64-10	#2 Composite	<0.6	<0.2	2
1777-64-11	#6 Composite	<0.6	0.2	<1
1777-64-12	#1 Composite	<0.6	0.2	<1

EAL	Customer	Selenium mg/kg	Mercury mg/kg	Thallium mg/kg
1777-64-9	#3 Composite	<210	0.04	<2
1777-64-10	#2 Composite	<190	0.02	<2
1777-64-11	#6 Composite	<200	<0.04	<2
1777-64-12	#1 Composite	<200	<0.04	<2

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-5

Client I.D.: #3 Composite

PRIORITY POLLUTANT DATA SHEET

<u>VOLATILES</u>	<u>ng/g(ppb)</u>	<u>VOLATILE</u>	<u>ng/g(ppb)</u>
benzene	< 1	trans-1,3-dichloropropene	< 1
carbon tetrachloride	< 1	cis-1,3-dichloropropene	< 1
chlorobenzene	< 1	ethylbenzene	< 1
1,2-dichloroethane	< 1	methylene chloride	< 1
1,1,1-trichloroethane	< 1	chloromethane	< 1
1,1-dichloroethane	< 1	bromomethane	< 1
1,1,2-trichloroethane	< 1	bromoform	< 1
1,1,2,2-tetrachloroethane	< 1	bromodichloromethane	< 1
chloroethane	< 1	fluorotrichloromethane	< 1
2-chloroethylvinyl ether	< 1	dichlorodifluoromethane	< 1
chloroform	< 1	chlorodibromomethane	< 1
1,1-dichloroethene	< 1	tetrachloroethene	< 1
trans-1,2-dichloroethene	< 1	toluene	< 1
1,2-dichloropropane	< 1	trichloroethene	< 1
		vinyl chloride	< 1

NON-PRIORITY POLLUTANT

carbon disulfide	< 1	acetone	<10
4-methyl-2-pentanone	<10	2-butanone	<20
styrene	< 1	2-hexanone	<10
vinyl acetate	< 2	xylenes	< 1

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-6

Client I.D.: #2 Composite

PRIORITY POLLUTANT DATA SHEET

<u>VOLATILES</u>	<u>ng/g(ppb)</u>	<u>VOLATILE</u>	<u>ng/g(ppb)</u>
benzene	< 1	trans-1,3-dichloropropene	< 1
carbon tetrachloride	< 1	cis-1,3-dichloropropene	< 1
chlorobenzene	< 1	ethylbenzene	< 1
1,2-dichloroethane	< 1	methylene chloride	< 1
1,1,1-trichloroethane	< 1	chloromethane	< 1
1,1-dichloroethane	< 1	bromomethane	< 1
1,1,2-trichloroethane	< 1	bromoform	< 1
1,1,2,2-tetrachloroethane	< 1	bromodichloromethane	< 1
chloroethane	< 1	fluorotrichloromethane	< 1
2-chloroethylvinyl ether	< 1	dichlorodifluoromethane	< 1
chloroform	< 1	chlorodibromomethane	< 1
1,1-dichloroethene	< 1	tetrachloroethene	< 1
trans-1,2-dichloroethene	< 1	toluene	< 1
1,2-dichloropropane	< 1	trichloroethene	< 1
		vinyl chloride	< 1

NON-PRIORITY POLLUTANT

carbon disulfide	< 1	acetone	<10
4-methyl-2-pentanone	<10	2-butanone	<20
styrene	< 1	2-hexanone	<10
vinyl acetate	< 2	xylenes	< 1

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-7

Client I.D.: #6 Composite

PRIORITY POLLUTANT DATA SHEET

<u>VOLATILES</u>	<u>ng/g(ppb)</u>	<u>VOLATILE</u>	<u>ng/g(ppb)</u>
benzene	< 1	trans-1,3-dichloropropene	< 1
carbon tetrachloride	< 1	cis-1,3-dichloropropene	< 1
chlorobenzene	< 1	ethylbenzene	< 1
1,2-dichloroethane	< 1	methylene chloride	< 1
1,1,1-trichloroethane	< 1	chloromethane	< 1
1,1-dichloroethane	< 1	bromomethane	< 1
1,1,2-trichloroethane	< 1	bromoform	< 1
1,1,2,2-tetrachloroethane	< 1	bromodichloromethane	< 1
chloroethane	< 1	fluorotrichloromethane	< 1
2-chloroethylvinyl ether	< 1	dichlorodifluoromethane	< 1
chloroform	< 1	chlorodibromomethane	< 1
1,1-dichloroethene	< 1	tetrachloroethene	< 1
trans-1,2-dichloroethene	< 1	toluene	< 1
1,2-dichloropropane	< 1	trichloroethene	< 1
		vinyl chloride	< 1

NON-PRIORITY POLLUTANT

carbon disulfide	< 1	acetone	<10
4-methyl-2-pentanone	<10	2-butanone	<20
styrene	< 1	2-hexanone	<10
vinyl acetate	< 2	xylenes	< 1

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-8

Client I.D.: #1 Composite

PRIORITY POLLUTANT DATA SHEET

<u>VOLATILES</u>	<u>ng/g(ppb)</u>	<u>VOLATILE</u>	<u>ng/g(ppb)</u>
benzene	< 1	trans-1,3-dichloropropene	< 1
carbon tetrachloride	< 1	cis-1,3-dichloropropene	< 1
chlorobenzene	< 1	ethylbenzene	< 1
1,2-dichloroethane	< 1	methylene chloride	< 1
1,1,1-trichloroethane	< 1	chloromethane	< 1
1,1-dichloroethane	< 1	bromomethane	< 1
1,1,2-trichloroethane	< 1	bromoform	< 1
1,1,2,2-tetrachloroethane	< 1	bromodichloromethane	< 1
chloroethane	< 1	fluorotrichloromethane	< 1
2-chloroethylvinyl ether	< 1	dichlorodifluoromethane	< 1
chloroform	< 1	chlorodibromomethane	< 1
1,1-dichloroethene	< 1	tetrachloroethene	< 1
trans-1,2-dichloroethene	< 1	toluene	< 1
1,2-dichloropropane	< 1	trichloroethene	< 1
		vinyl chloride	< 1

NON-PRIORITY POLLUTANT

carbon disulfide	< 1	acetone	<10
4-methyl-2-pentanone	<10	2-butanone	<20
styrene	< 1	2-hexanone	<10
vinyl acetate	< 2	xylene	< 1

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-9

Client I.D.: #3 Composite

PRIORITY POLLUTANT COMPOUNDS

COMPOUNDS	ug/kg(ppb)	COMPOUNDS	ug/kg(ppb)
2,4,6-trichlorophenol	<45	hexachlorobutadiene	<45
p-chloro-m-cresol	<45	hexachlorocyclopentadiene	<45
2-chlorophenol	<45	isophorone	<45
2,4-dichlorophenol	<45	naphthalene	<45
2,4-dimethylphenol	<45	nitrobenzene	<45
2-nitrophenol	<45	N-nitrosodiphenylamine	<45
4-nitrophenol	<225	N-nitrosodipropylamine	<45
2,4-dinitrophenol	<225	bis(2-ethylhexyl)phthalate	<45
4,6-dinitro-2-methylphenol	<225	benzyl butyl phthalate	<45
pentachlorophenol	<225	di-n-butyl phthalate	<45
phenol	<45	di-n-octyl phthalate	<45
acenaphthene	<45	diethyl phthalate	<45
benzidine	<225	dimethyl phthalate	<45
1,2,4-trichlorobenzene	<45	benzo(a)anthracene	<45
hexachlorobenzene	<45	benzo(a)pyrene	<45
hexachloroethane	<45	benzo(b)fluoranthene	<45
bis(2-chloroethyl)ether	<45	benzo(k)fluoranthene	<45
2-chloronaphthalene	<45	chrysene	<45
1-2-dichlorobenzene	<45	acenaphthylene	<45
1,3-dichlorobenzene	<45	anthracene	<45
1,4-dichlorobenzene	<45	benzo(ghi)perylene	<45
3,3'-dichlorobenzidine	<90	fluorene	<45
2,4-dinitrotoluene	<45	phenanthrene	<45
1,2-diphenylhydrazine	<45	dibenzo(a,h)anthracene	<45
4-chlorophenyl phenyl ether	<45	indeno(1,2,3-cd)pyrene	<45
bis(2-chloroisopropyl)ether	<45	pyrene	<45
fluoranthene	<45	2,6-dinitrotoluene	<45
bis(2-chloroethoxy)methane	<45	4-bromophenyl phenyl ether	<45

NON-PRIORITY POLLUTANT COMPOUNDS

benzoic acid	<225	aniline	<45
2-methylphenol	<45	benzyl alcohol	<45
4-methylphenol	<45	4-chloroaniline	<45
2,4,5-trichlorophenol	<45	dibenzofuran	<45
2-methylnaphthalene	<45	2-nitroaniline	<225
3-nitroaniline	<225	4-nitroaniline	<225

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-10

Client I.D.: #2 Composite

PRIORITY POLLUTANT COMPOUNDS

COMPOUNDS	ug/kg(ppb)	COMPOUNDS	ug/kg(ppb)
2,4,6-trichlorophenol	<150	hexachlorobutadiene	<150
p-chloro-m-cresol	<150	hexachlorocyclopentadiene	<150
2-chlorophenol	<150	isophorone	<150
2,4-dichlorophenol	<150	naphthalene	<150
2,4-dimethylphenol	<150	nitrobenzene	<150
2-nitrophenol	<150	N-nitrosodiphenylamine	<150
4-nitrophenol	<750	N-nitrosodipropylamine	<150
2,4-dinitrophenol	<750	bis(2-ethylhexyl)phthalate	<150
4,6-dinitro-2-methylphenol	<750	benzyl butyl phthalate	<150
pentachlorophenol	<750	di-n-butyl phthalate	<150
phenol	<150	di-n-octyl phthalate	<150
acenaphthene	<150	diethyl phthalate	<150
benzidine	<750	dimethyl phthalate	<150
1,2,4-trichlorobenzene	<150	benzo(a)anthracene	<150
hexachlorobenzene	<150	benzo(a)pyrene	<150
hexachloroethane	<150	benzo(b)fluoranthene	<150
bis(2-chloroethyl)ether	<150	benzo(k)fluoranthene	<150
2-chloronaphthalene	<150	chrysene	<150
1,2-dichlorobenzene	<150	acenaphthylene	<150
1,3-dichlorobenzene	<150	anthracene	<150
1,4-dichlorobenzene	<150	benzo(ghi)perylene	<150
3,3'-dichlorobenzidine	<300	fluorene	<150
2,4-dinitrotoluene	<150	phenanthrene	<150
1,2-diphenylhydrazine	<150	dibenzo(a,h)anthracene	<150
4-chlorophenyl phenyl ether	<150	indeno(1,2,3-cd)pyrene	<150
bis(2-chloroisopropyl)ether	<150	pyrene	<150
fluoranthene	<150	2,6-dinitrotoluene	<150
bis(2-chloroethoxy)methane	<150	4-bromophenyl phenyl ether	<150

NON-PRIORITY POLLUTANT COMPOUNDS

benzoic acid	<750	aniline	<150
2-methylphenol	<150	benzyl alcohol	<150
4-methylphenol	<150	4-chloroaniline	<150
2,4,5-trichlorophenol	<150	dibenzofuran	<150
2-methylnaphthalene	<150	2-nitroaniline	<750
3-nitroaniline	<750	4-nitroaniline	<750

Eberline Instrument

Date: May 13, 1985

EAL Lab No.: 1777-64-11

Client I.D.: #6

REVISED

PRIORITY POLLUTANT COMPOUNDS

COMPOUNDS	ug/kg(ppb)	COMPOUNDS	ug/kg(ppb)
2,4,6-trichlorophenol	<30	hexachlorobutadiene	<30
p-chloro-m-cresol	<30	hexachlorocyclopentadiene	<30
2-chlorophenol	<30	isophorone	<30
2,4-dichlorophenol	<30	naphthalene	<30
2,4-dimethylphenol	<30	nitrobenzene	<30
2-nitrophenol	<30	N-nitrosodiphenylamine	<30
4-nitrophenol	<150	N-nitrosodipropylamine	<30
2,4-dinitrophenol	<150	bis(2-ethylhexyl)phthalate	<30
4,6-dinitro-2-methylphenol	<150	benzyl butyl phthalate	<30
pentachlorophenol	<150	di-n-butyl phthalate	<30
phenol	<30	di-n-octyl phthalate	<30
acenaphthene	<30	diethyl phthalate	<30
benzidine	<150	dimethyl phthalate	<30
1,2,4-trichlorobenzene	<30	benzo(a)anthracene	<30
hexachlorobenzene	<30	benzo(a)pyrene	<30
hexachloroethane	<30	benzo(b)fluoranthene	<30
bis(2-chloroethyl)ether	<30	benzo(k)fluoranthene	<30
2-chloronaphthalene	<30	chrysene	<30
1-2-dichlorobenzene	<30	acenaphthylene	<30
1,3-dichlorobenzene	<30	anthracene	<30
1,4-dichlorobenzene	<30	benzo(ghi)perylene	<30
3,3'-dichlorobenzidine	<60	fluorene	<30
2,4-dinitrotoluene	<30	phenanthrene	<30
1,2-diphenylhydrazine	<30	dibenzo(a,h)anthracene	<30
4-chlorophenyl phenyl ether	<30	indeno(1,2,3-cd)pyrene	<30
bis(2-chloroisopropyl)ether	<30	pyrene	<30
fluoranthene	<30	2,6-dinitrotoluene	<30
bis(2-chloroethoxy)methane	<30	4-bromophenyl phenyl ether	<30

NON-PRIORITY POLLUTANT COMPOUNDS

benzoic acid	<150	aniline	<30
2-methylphenol	<30	benzyl alcohol	<30
4-methylphenol	<30	4-chloroaniline	<30
2,4,5-trichlorophenol	<30	dibenzofuran	<30
2-methylnaphthalene	<30	2-nitroaniline	<150
3-nitroaniline	<150	4-nitroaniline	<150

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-12

Client I.D.: #1 Composite

PRIORITY POLLUTANT COMPOUNDS

COMPOUNDS	ug/kg(ppb)	COMPOUNDS	ug/kg(ppb)
2,4,6-trichlorophenol	<30	hexachlorobutadiene	<30
p-chloro-m-cresol	<30	hexachlorocyclopentadiene	<30
2-chlorophenol	<30	isophorone	<30
2,4-dichlorophenol	<30	naphthalene	<30
2,4-dimethylphenol	<30	nitrobenzene	<30
2-nitrophenol	<30	N-nitrosodiphenylamine	<30
4-nitrophenol	<150	N-nitrosodipropylamine	<30
2,4-dinitrophenol	<150	bis(2-ethylhexyl)phthalate	<30
4,6-dinitro-2-methylphenol	<150	benzyl butyl phthalate	<30
pentachlorophenol	<150	di-n-butyl phthalate	<30
phenol	<30	di-n-octyl phthalate	<30
acenaphthene	<30	diethyl phthalate	<30
benzidine	<150	dimethyl phthalate	<30
1,2,4-trichlorobenzene	<30	benzo(a)anthracene	<30
hexachlorobenzene	<30	benzo(a)pyrene	<30
hexachloroethane	<30	benzo(b)fluoranthene	<30
bis(2-chloroethyl)ether	<30	benzo(k)fluoranthene	<30
2-chloronaphthalene	<30	chrysene	<30
1-2-dichlorobenzene	<30	acenaphthylene	<30
1,3-dichlorobenzene	<30	anthracene	<30
1,4-dichlorobenzene	<30	benzo(ghi)perylene	<30
3,3'-dichlorobenzidine	<60	fluorene	<30
2,4-dinitrotoluene	<30	phenanthrene	160
1,2-diphenylhydrazine	<30	dibenzo(a,h)anthracene	<30
4-chlorophenyl phenyl ether	<30	indeno(1,2,3-cd)pyrene	<30
bis(2-chloroisopropyl)ether	<30	pyrene	1,200
fluoranthene	380	2,6-dinitrotoluene	<30
bis(2-chloroethoxy)methane	<30	4-bromophenyl phenyl ether	<30

NON-PRIORITY POLLUTANT COMPOUNDS

benzoic acid	<150	aniline	<30
2-methylphenol	<30	benzyl alcohol	<30
4-methylphenol	<30	4-chloroaniline	<30
2,4,5-trichlorophenol	<30	dibenzofuran	<30
2-methylnaphthalene	<30	2-nitroaniline	<150
3-nitroaniline	<150	4-nitroaniline	<150

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-9

Client I.D.: #3 Composite

Compound	ug/kg	Compound	ug/kg
a-BHC	<1	pp-DDT (4,4')	<1
g-BHC	<1	Endrin Aldehyde	<1
B-BHC	<1	Endosulfan Sulfate	<1
Heptachlor	<1	Chlordane	<5
D-BHC	<1	Toxaphene	<74
Aldrin	<1	PCB's	
Heptachlor Epoxide	<1	PCB-1016	<27
a-Endosulfan	<1	PCB-1221	<27
p,p-DDE (4,4')	<1	PCB-1232	<27
Dieldrin	<1	PCB-1242	<27
Endrin	<1	PCB-1248	<27
p,p-DDD (4,4')	<1	PCB-1254	<27
B-Endosulfan	<1	PCB-1260	<27
Methoxychlor	<1	PCB-1262	<27

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-12

Client I.D.: #1 Composite

Compound	ug/kg	Compound	ug/kg
a-BHC	<0.6	pp-DDT (4,4')	<0.6
g-BHC	<0.6	Endrin Aldehyde	<0.6
B-BHC	<0.6	Endosulfan Sulfate	<0.6
Heptachlor	<0.6	Chlordane	<3
D-BHC	<0.6	Toxaphene	<50
Aldrin	<0.6	PCB's	
Heptachlor Epoxide	<0.6	PCB-1016	<18
a-Endosulfan	<0.6	PCB-1221	<18
p,p-DDE (4,4')	<0.6	PCB-1232	<18
Dieldrin	<0.6	PCB-1242	<18
Endrin	<0.6	PCB-1248	<18
p,p-DDD (4,4')	<0.6	PCB-1254	<18
B-Endosulfan	<0.6	PCB-1260	<18
Methoxychlor	<0.6	PCB-1262	<18

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-10

Client I.D.: #2 Composite

Compound	ug/kg	Compound	ug/kg
a-BHC	<0.6	pp-DDT (4,4')	<0.6
g-BHC	<0.6	Endrin Aldehyde	<0.6
B-BHC	<0.6	Endosulfan Sulfate	<0.6
Heptachlor	<0.6	Chlordane	<3
D-BHC	<0.6	Toxaphene	<50
Aldrin	<0.6	PCB's	
Heptachlor Epoxide	<0.6	PCB-1016	<18
a-Endosulfan	<0.6	PCB-1221	<18
p,p-DDE (4,4')	<0.6	PCB-1232	<18
Dieldrin	<0.6	PCB-1242	<18
Endrin	<0.6	PCB-1248	<18
p,p-DDD (4,4')	<0.6	PCB-1254	<18
B-Endosulfan	<0.6	PCB-1260	<18
Methoxychlor	<0.6	PCB-1262	<18

Eberline Instrument

Date: May 8, 1985

EAL Lab No.: 1777-64-11

Client I.D.: #6 Composite

Compound	ug/kg	Compound	ug/kg
a-BHC	<0.5	pp-DDT (4,4')	<0.5
g-BHC	<0.5	Endrin Aldehyde	<0.5
B-BHC	<0.5	Endosulfan Sulfate	<0.5
Heptachlor	<0.5	Chlordane	<3
D-BHC	<0.5	Toxaphene	<43
Aldrin	<0.5	PCB's	
Heptachlor Epoxide	<0.5	PCB-1016	<16
a-Endosulfan	<0.5	PCB-1221	<16
p,p-DDE (4,4')	<0.5	PCB-1232	<16
Dieldrin	<0.5	PCB-1242	<16
Endrin	<0.5	PCB-1248	<16
p,p-DDD (4,4')	<0.5	PCB-1254	<16
B-Endosulfan	<0.5	PCB-1260	<16
Methoxychlor	<0.5	PCB-1262	<16