Appendix G

Drainages

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Assessment Data

Excerpt from:

Background and Resurvey Recommendations for the Atomic Energy Commission Portion of the Lake Ontario Ordnance Works

and

A Comprehensive Characterization and Hazard Assessment of the DOE-Niagara Falls Storage Site

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NY.17 SITELF

Aerospace Report No.
ATR-82(7963-04)-1

Background and Resurvey Recommendations for the Atomic Energy Commission Portion of the Lake Ontario Ordnance Works

November 1982

Prepared for

Public Safety Division
Office of Operational Safety
Assistant Secretary for Environmental Protection,
Safety, and Energy Prepardness
U.S. DEPARTMENT OF ENERGY

Prepared by

Environment and Conservation Directorate
Eastern Technical Division
THE AEROSPACE CORPORATION
Washington, D.C.

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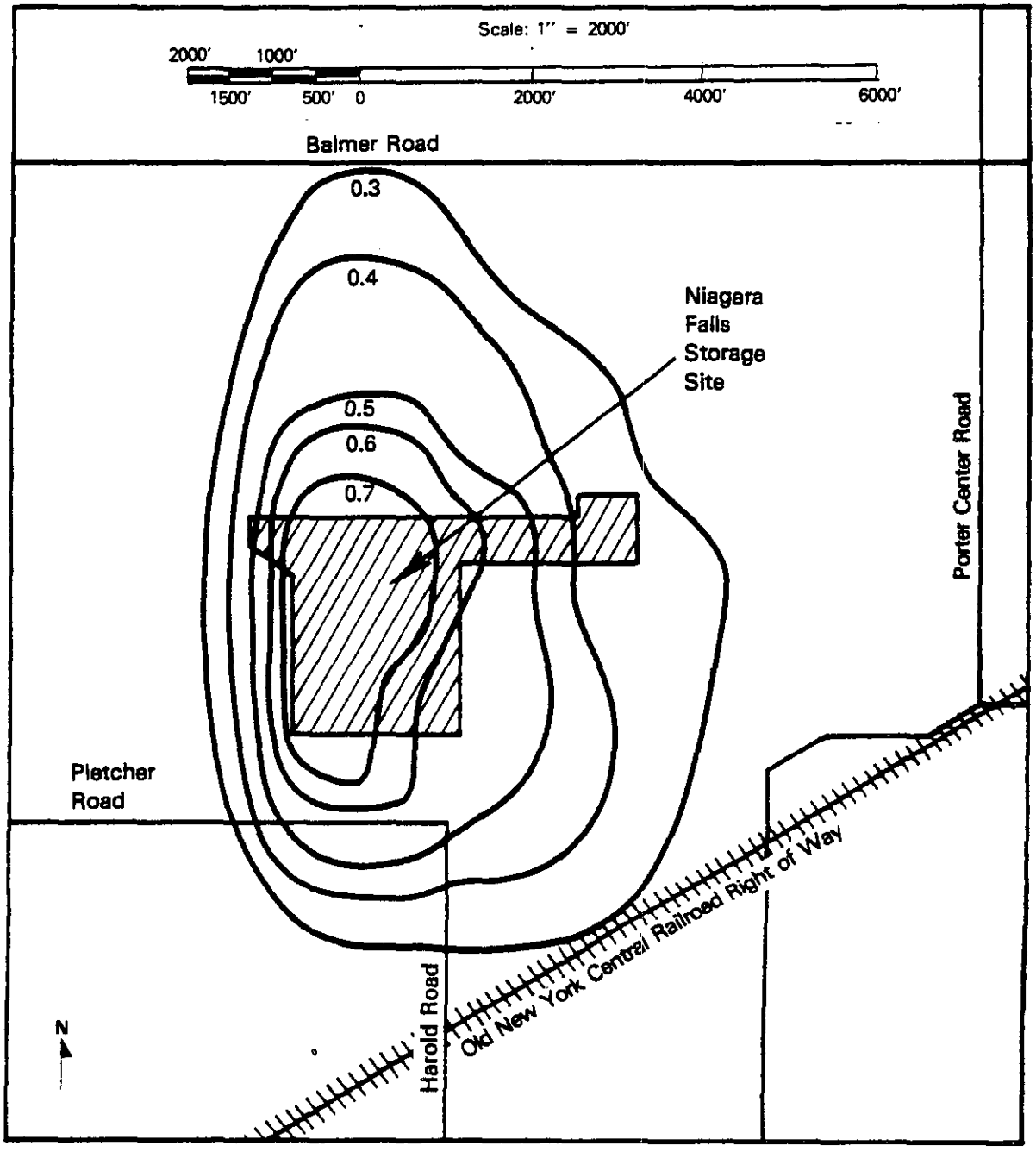

Figure 6. Contours of Equal Radon Concentration (picocuries/liter) for Niagara Falls Storage Site (October 1980 - March 1981) (Adapted from a Mound Facility report to the Department of Energy)

BMI-2074(Revised)
UC-11

FINAL REPORT

on

A COMPREHENSIVE CHARACTERIZATION AND HAZARD ASSESSMENT OF THE DOE-NIAGARA FALLS STORAGE SITE

prepared for

U.S. DEPARTMENT OF ENERGY
REMEDIAL ACTION PROGRAM

June 1981

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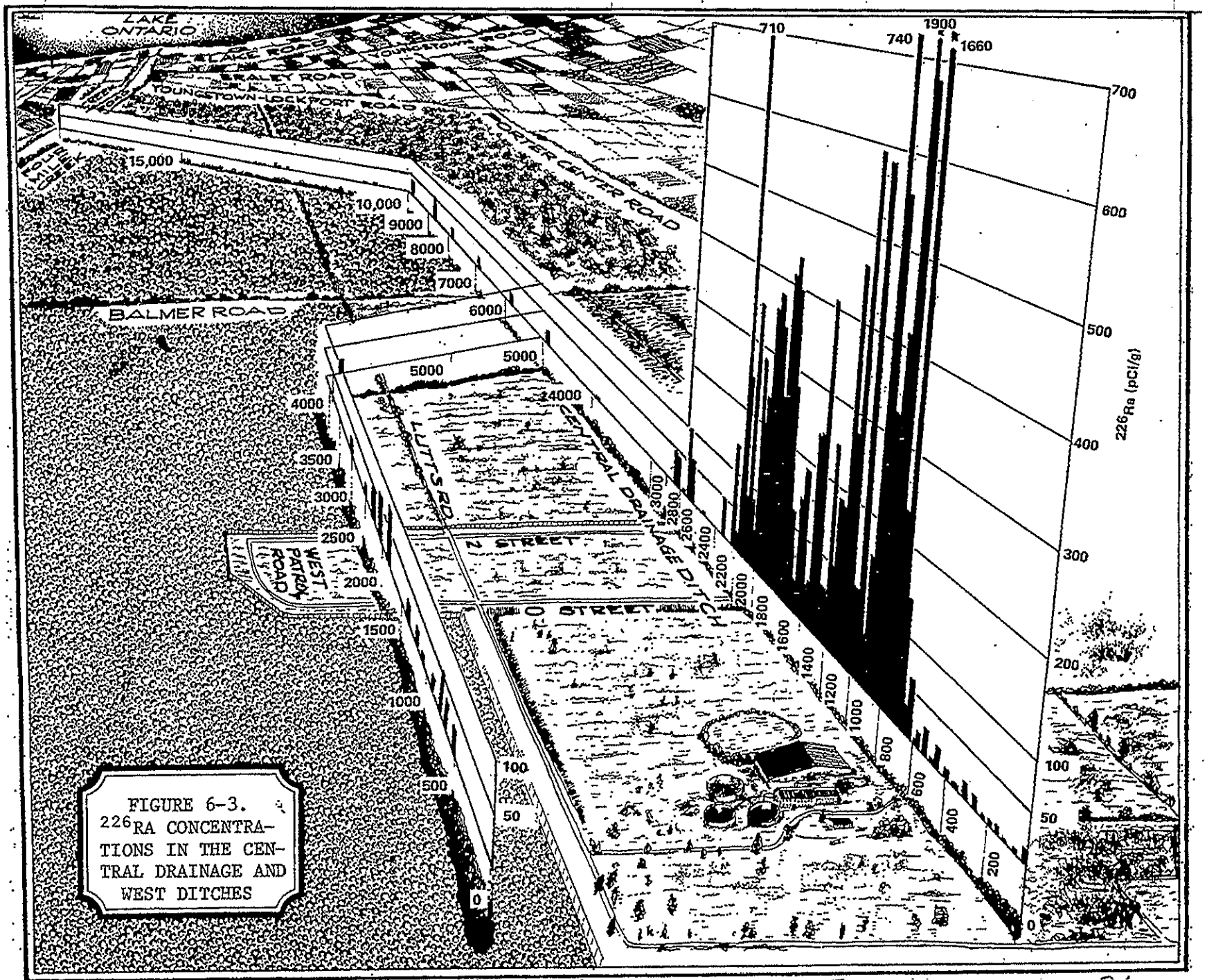

FIGURE 6-3. 226RA CONCENTRATIONS IN THE CENTRAL DRAINAGE AND WEST DITCHES

APPENDIX I

CHARACTERIZATION OF DRAINAGES AND SATURATED ZONES

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TABLE I-1. INSTRUMENTAL REA D ^{226}RA CONCENTRATIONS IN THE CENTRAL DR ICH

Distance from Ditch Origination, ft (m)	Instrument Gamma (1 m) (μR/hr)(a)	Instrument Beta Gamma (1 cm) (μR/hr)(b)	^{226}Ra Concentration (pCi/g) Screening(c)	^{226}Ra Concentration (pCi/g) Radiochemistry(d)	B Coordinates	nce Code ID
0	18	80		13	S41W8	MD1
25	20	60			S40.5W8	MD2
50	15	70		6.3	S40W8	MD3
25	16	100			S39.5W8	MD4
100(30.5)	15	90		7	S39W8	MD5
125	15	100			S38.5W8	MD6
150	17	80		12	S38W8	MD7
175	18	120			S37.5W8	MD8
200(61)	22	70		8.5	S37W8	MD9
225	20	70			S36.5W8	MD10
250	19	60		5.4	S36W8	MD11
275	16	70			S35.5W8	MD12
300	17	50		7.4	S35W8	MD13
325	15	60			S34.5W8	MD14
350	15	60		16	S34W8	MD15
325	15	60			S33.5W8	MD16
400(122)	15	50		12	S33W8	MD17
425	21	60			S32.5W8	MD18
500(152.5)	22	90		22	S32W8	MD19
525	20	80			S31.5W8(e)	MD20
550	25	130		30	S30W8	MD21
575	25	110			S29.5W8	MD22
600(183)	26	70		22	S29W8	MD23
625	40	200			S28.5W8	MD24
650	60	120		54	S28W8	MD25
675(f)	110	330		28	S27.5W8	MD26
700(213.5)	211	120		140	S27W8(f)	MD27
725	500	140		1,660	S26.5W8	MD28
750	900	1,800		270	S26W8	MD29
775	1,000	2,000		670	S25.5W8	MD30
800(244)	900	2,200		1,900	S25W8	MD31
825	1,000	2,200		410	S24.5W8	MD32
850	600	800		320	S24W8	MD33
875	800	1,600		560	S23.5W8	MD34
900(274.5)	600	1,400		740	S23W8	MD35
925	500	1,200		150	S22.5W8	MD36

I-2

TABLE I-1. (Continued)

Distance from Ditch Origination, ft (m)	Instrumental Readings: Gamma (1 m) (μR/hr)(a)	Instrumental Readings: Beta-Gamma (1 cm) (μR/hr)(b)	^{226}Ra Concentration (pCi/g): Screening(c)	^{226}Ra Concentration (pCi/g): Radiochemistry(d)	BCD Reference Code: Grid Coordinates	BCD Reference Code: ID
950	400	1,400		40	S22W8	MD37
975	260	800		580	S21.5W8	MD38
1,000(305)	400	600		99	S21W8	MD39
1,025	400	900		600	S20.5W8	MD40
1,050	260	600		273	S20W8	MD41
1,075	280	700		470	S19.5W8	MD42
1,100(335.5)	300	800		170	S19W8	MD43
1,125	280	500		176	S18.5W8	MD44
1,150	140	600		91	S18W8	MD45
1,175	400	800		240	S17.5W8	MD46
1,200(366)	160	200		64	S17W8	MD47
1,225	200	320		64	S16.5W8	MD48
1,250	150	280		405	S16W8	MD49
1,275	40	150		22	S15.5W8	MD50
1,300(396.5)	90	260		225	S15W8	MD51
1,325	50	100		220	S14.5W8	MD52
1,350	70	240		50	S14W8	MD53
1,375	100	260		46	S13.5W8	MD54
1,400(427)	140	200		190	S13W8	MD55
1,425	130	240		140	S12.5W8	MD60
1,450	90	300		40	S12W8	MD61
1,475	140	260		120	S11.5W8	MD62
1,500(452.5)	90	160		270	S11W8	MD63
1,525	170	390		400	S10.5W8	MD64
1,550	270	600		440	S10W8	MD65
1,575	200	500		410	S9.5W8	MD66
1,600(488)	300	1,100		250	S9W8	MD67
1,625	220	600		340	S8.5W8	MD68
1,650	100	360		380	S8W8	MD69
1,675	200	600		360	S7.5W8	MD70
1,700(518.5)	230	900		240	S7W8	MD71
1,725	160	600		200	S6.5W8	MD72
1,750	200	360		41	S6W8	MD73
1,775	150	310		290	S5.5W8	MD74
1,800(549)	120	390		75	S5W8	MD75
1,825	100	360		350	S4.5W8	MD76
1,850	40	220		83	S4W8	MD77

I-3

TABLE I-1. (Continued)

Distance from Ditch Origination, ft (m)	Instrumental Readings: Gamma (1 m) (μR/hr)[a]	Instrumental Readings: Beta-Gamma (1 cm) (μR/hr)[b]	^{226}Ra Concentration (pCi/g): Screening[c]	^{226}Ra Concentration (pCi/g): Radiochemistry[d]	BCL Reference Code: Grid Coordinates	BCL Reference Code: ID
1,875	110	290		250	S3.5W8	MD78
1,900	120	420		90	S3W8	MD79
1,925	20	330		710	S2.5W8	MD80
1,950	16	100		24	S2W8	MD81
1,975	25	110			S1.5W8	MD82
2,000	40	130		140	S1W8	MD83
2,125	80	210			N1.5W8	MD84
2,150	50	160		50	N2W8	MD85
2,175	22	120			N2.5W8	MD86
2,200(671)	16	90		2.8	N3W8	MD87
2,225	14	130			N3.5W8	MD88
2,250	16	90		2.2	N4W8	MD89
2,275	19	80			N4.5W8	MD90
2,300(701.5)	26	70		3	N5W8	MD91
2,325	24	100			N5.5W8	MD92
2,350	26	60		8.5	N6W8	MD93
2,375	21	110			N6.5W8	MD94
2,400(732)	22	150		61	N7W8	MD95
2,425	40	120			N7.5W8	MD96
2,450	26	150		110	N8W8	MD97
2,475	20	100			N8.5W8	MD98
2,500	26	130		9	N9W8	MD99
2,525	40	300		7.5	N9.5W8	MD100
2,600	50	260		40	N11W8	MD101
2,625	28	150			N11.5W8	MD102
2,650[g]	29	60		50	N12W8	MD103
2,750(838.75)			>5	22(65)	off-site	MD105(200)
3,700	10-20		>5	7		MD210
3,850[h]	10-20		>4			211E
4,700(1,434)	10-20		>5	21.6		220
5,700(1,739)				21		230
5,850	10-15		>5			231
5,950	10-15		>5			232
6,700[i] (2,044)	10-15		>5	9.7		240
6,750	10-15		>5	18.2		300
7,615(2,323)	10-15			22.8		310
8,540(2,605)	10-15			73.1		320
9,465(2,887)	10-15			55		330

I-4

TABLE I-1. (Continued)

Distance from Ditch Origination, ft (m)	Instrumental Readings: Gamma (1 m) (μR/hr)[a]	Instrumental Readings: Beta-Gamma (1 cm) (μR/hr)[b]	^{226}Ra Concentration (pCi/g): Screening[c]	^{226}Ra Concentration (pCi/g): Radiochemistry[d]	BCD Reference Code: Grid Coordinates	BCD Reference Code: ID
10,150(3,095.75)	10-15		>5		off-site	333
10,390[j] (3,334)	10-15		>4	7.5		340
11,050	10-15		>4	4.4		343
11,890[k] (3,626)	10-15		>4	5.1		344
12,090	10-15		>4	0.75		345
12,590(3,840)	10-15			10.4		350
14,340(4,374)	10-15		>5	8.4		357
17,650(5,383)	10-15		>4	2.6		370

(a) Gamma readings taken at 1 m above sediment or surface; background 13 μR/hr.

(b) Beta-gamma readings taken at 1 cm above sediment or water surface, background 60 μR/hr.

(c) Measurement of ^{214}Bi as index of ^{226}Ra (see QA Document NS-NS-122).

(d) Gamma spectroscopy, background concentration average in sediment 0.5 pCi/g (±0.1) (see Appendix I, Table I-2, for complete listings of radionuclide composition of on-site sediments).

(e) Confluence with S31 Ditch (see Figure I-1).

(f) Water reservoir drain pipe (from recarbonation pit running north of Building 411).

(g) Sample taken at the north perimeter fence.

(h) Sample taken 50 ft into a tributary ditch.

(i) Sample 100 ft north of Balmer Road (see Figure I-1).

(j) Sample taken at Central Drainage Ditch and Magazine Drainage Ditch (see Figure I-1).

(k) Sample just east of Lutts Road (see Figure I-1).

TABLE I-2. [illegible] DES IN ON-SITE SEDIMENT SAMPLES OF [illegible]AL DRAINAGE DITCH

DITCH COORDINATES (a)	U-235	PA-231	TH-227	[illegible]	TH-234	PA-226	PB-214	BI-214	PB-210	CS-137	TH-232	K-40
	ACTIVITY PCI/G											
MD1	<5.00E-1	<2.40E+0	<8.00E-1	[illegible]	1.10E+1	1.30E+1	4.70E+0	4.40E+0	2.00E+1	5.20E+0	1.20E+0	2.40E+1
MD3	<5.00E-1		3.00E-1	2.00E-1	8.80E+0	6.30E+0	4.60E+0	4.80E+0	2.00E+1	4.80E+0	1.50E+0	2.40E+1
MD5	<4.00E-1	<1.00E+0	<1.00E+0	<4.00E-1	<6.20E+0	7.00E+0	4.40E+0	4.40E+0	1.90E+1	4.10E+0	1.40E+0	2.50E+1
MD7	3.00E-1			<6.00E-1	1.10E+1	1.20E+1	5.60E+0	4.60E+0	2.20E+1	3.10E+0	1.40E+0	2.20E+1
MD9	<5.00E-1	<2.40E+0	<1.30E+0	5.00E-1	1.10E+1	8.50E+0	4.60E+0	4.50E+0	1.70E+1	3.50E+0	9.00E-1	2.40E+1
MD11	<4.00E-1	<5.00E-1	<5.00E-1	<8.00E-1	<5.50E+0	5.40E+0	2.70E+0	3.00E+0	1.30E+1	2.50E+0	9.00E-1	2.10E+1
MD13	<7.00E-1	<3.20E+0		2.10E-1	<1.10E+1	7.40E+0	4.50E+0	4.80E+0	1.10E+1	4.20E+0	1.30E+0	2.30E+1
MD15	5.00E-1	<3.30E+0		6.00E-1	2.40E+1	1.60E+1	6.40E+0	5.60E+0	1.90E+1	3.00E+0	1.10E+0	1.90E+1
MD17	8.00E-1	<3.00E+0	4.00E-1	5.00E-1	<1.30E+1	1.20E+1	6.70E+0	5.20E+0	3.10E+1	4.40E+0	1.70E+0	2.80E+1
MD19	[illegible]	<9.00E+0	<1.20E+0	1.00E+0	6.70E+2	2.20E+1	1.20E+1	1.20E+1	4.80E+1	4.10E+0	2.20E+0	2.30E+1
MD21	[illegible]	<1.00E+1	<1.00E+0	<6.00E-1	1.50E+2	3.00E+1	1.40E+1	1.30E+1	2.00E+1	4.00E-1	1.20E+0	1.90E+1
MD23	[illegible]	<3.30E+0		1.30E-1	1.50E+2	2.20E+1	7.50E+0	6.70E+0	1.00E+1	1.00E+0	1.00E+0	2.00E+1
MD25	[illegible]	4.40E+0		1.70E+0	5.40E+1	5.40E+1	1.40E+1	1.50E+1	4.70E+1	1.20E+0	1.60E+0	2.30E+1
MD26	[illegible]	2.90E+0	8.00E-1	1.00E+0	1.27E+2	2.80E+1	1.50E+1	1.40E+1	4.10E+1	1.50E+0	1.20E+0	2.60E+1
MD27	[illegible]	<2.00E+1	9.30E+0	9.10E+0	1.60E+2	1.40E+2	6.60E+1	7.90E+1	2.50E+2	9.00E-1	2.80E+0	2.60E+1
MD28	1.30E+1	1.10E+2	1.00E+2	8.00E+1	1.90E+2	1.66E+3	9.50E+2	9.10E+2	2.50E+3	<2.00E+0	<8.00E+0	3.00E+1
MD29	[illegible]	<1.50E+1	1.60E+1	1.30E+1	<5.50E+1	2.70E+2	1.50E+2	1.30E+2	5.50E+2	1.40E+0	<3.20E+0	<5.00E+1
MD30	1.20E+1	3.50E+1	4.80E+1	3.60E+1		6.70E+2	4.00E+2	3.80E+2	1.06E+3	5.00E-1	<5.10E+0	2.20E+1
MD31	9.30E+0	1.30E+2	1.00E+2	9.10E+1	<2.00E+2	1.90E+3	1.22E+3	1.14E+3	2.20E+3	<3.00E+0		<3.80E+1
MD32	7.70E+0	3.60E+1	2.90E+1	2.50E+1	<7.70E+1	4.10E+2	3.10E+2	3.00E+2	7.50E+2	<1.00E+1	<8.00E+0	3.00E+1
MD33	6.30E+0	4.60E+1	2.90E+1	2.50E+1	<6.40E+1	3.20E+2	2.10E+2	1.90E+2	6.30E+2	6.00E-1	3.00E+0	3.70E+1
MD34	9.40E+0	4.80E+1	4.00E+1	3.70E+1	1.40E+2	5.60E+2	3.70E+2	3.60E+2	1.53E+3	7.00E-1	3.00E+0	4.30E+1
MD35	1.00E+1	7.10E+1	5.90E+1	4.30E+1	1.40E+2	7.40E+2	4.90E+2	4.70E+2	1.53E+3	<1.00E+1	<5.00E+0	2.60E+1

I-6

TABLE I-2. (Continued)

DITCH COORDINATES (a)	ACTIVITY PCI/G U-235	PA-231	TH-227	RA-223	TH-234	RA-226	PB-214	BI-214	PB-210	CS-137	TH-232	K-40
MD36	4.70E+0	<8.30E+0	9.90E+0	8.00E+0	7.80E+1	1.50E+2	9.30E+1	8.30E+1	2.60E+2	1.40E+0	2.00E+0	2.90E+1
MD37	3.60E+0	4.00E+1	2.60E+1	2.40E+1	1.00E+2	4.60E+2	2.60E+2	2.40E+2	7.00E+2	3.00E-1	<3.40E+0	2.50E+1
MD38	4.50E+0	4.70E+1	4.50E+1	2.90E+1	<1.10E+2	5.80E+2	3.00E+2	3.60E+2	7.20E+2	1.10E+0	3.70E+0	4.80E+1
MD39	7.00E-1	5.00E+0	3.70E+0	3.20E+0	<2.30E+1	9.90E+1	5.50E+1	5.60E+1	1.30E+2	1.10E+0	1.10E+0	3.10E+1
MD40	<2.00E+0	3.60E+1	3.70E+1	3.10E+1		6.00E+2	3.00E+2	2.80E+2	7.50E+2	<1.00E+0	<4.70E+0	3.50E+1
MD41	4.00E+0	1.50E+1	1.80E+1	1.60E+1	1.88E+2	2.73E+2	1.44E+2	1.29E+2	3.00E+3	<4.00E+0	<6.00E+0	3.50E+1
MD42	5.40E+0	2.30E+1	3.10E+1	2.80E+1	<7.80E+1	4.70E+2	2.28E+2	2.10E+2	6.00E+2	<1.00E+0	3.30E+0	2.80E+1
MD43	1.30E+0	1.20E+1	8.70E+0	9.40E+0	4.90E+1	1.70E+2	7.60E+1	7.40E+1	1.90E+2	1.40E-1	2.30E+0	1.90E+1
MD44	2.20E+0	9.80E+0	1.10E+1	1.10E+1	6.50E+1	1.76E+2	9.00E+1	8.00E+1	1.00E+3	2.10E+0	4.00E+0	2.80E+1
MD45	2.60E+0	5.70E+0	6.20E+0	4.60E+0	4.10E+1	9.10E+1	4.90E+1	4.60E+1	1.80E+2	3.00E-1	1.70E+0	2.50E+1
MD46	<3.00E+0	1.50E+1	1.30E+1	1.30E+1		2.40E+2	9.40E+1	9.00E+1	4.40E+2	1.10E+0	1.90E+0	3.70E+1
MD47	3.70E+0	<6.00E+0	3.20E+0	2.40E+0	6.70E+1	6.40E+1	3.50E+1	3.30E+1	9.50E+1	2.50E-1	1.50E+0	2.30E+1
MD48	4.20E+0	5.20E+0	3.90E+0	4.30E+0	1.00E+2	6.40E+1	4.20E+1	4.00E+1	8.60E+1	4.20E-1	1.20E+0	2.60E+1
MD49	<5.00E+0	1.60E+1	2.50E+1	2.00E+1	<8.10E+1	4.05E+2	2.07E+2	2.02E+2	5.20E+2	<4.00E+0	<5.00E+0	2.50E+1
MD50	<1.00E+0	<3.20E+0	9.00E-1	1.00E+0	6.00E+0	2.20E+1	1.20E+1	1.00E+1	2.60E+1	1.00E-1	1.50E+0	1.90E+1
MD51	1.20E+0	1.70E+1	1.30E+1	1.00E+1	<3.90E+1	2.25E+2	1.29E+2	1.19E+2	3.00E+2	7.00E-1		3.00E+1
MD52	1.00E+0	1.60E+1	1.70E+1	1.60E+1	6.90E+1	2.20E+2	1.05E+2	9.80E+1	3.00E+2	2.00E-1	<2.20E+0	1.80E+1
MD53	1.30E+0	2.40E+0	1.90E+0	2.60E+0	3.20E+1	5.00E+1	1.90E+1	1.80E+1	9.40E+1	3.00E-1	1.30E+0	2.40E+1
MD54	1.80E+0	<5.20E+0	3.10E+0	3.20E+0	3.30E+1	4.60E+1	2.10E+1	1.90E+1	4.70E+1	8.00E-1	1.60E+0	2.10E+1
MD55	<2.20E+0	8.70E+0	1.20E+1	9.30E+0	7.80E+1	1.90E+2	6.40E+1	5.80E+1	2.60E+2	9.00E-2	2.30E+0	2.30E+1
MD60	<2.00E+0	3.90E+0	6.10E+0	4.70E+0	<3.80E+1	1.40E+2	6.10E+1	5.50E+1	6.10E+2	6.00E-1	1.30E+0	2.40E+1
MD61	<1.00E+0	2.60E+0	2.40E+0	1.70E+0	<1.40E+1	4.00E+1	2.60E+1	2.40E+1	8.90E+1	3.00E-1	1.10E+0	2.20E+1
MD62	<1.60E+0		5.10E+0	5.90E+0	<3.00E+1	1.20E+2	1.04E+2	1.05E+2	1.48E+2	<3.00E-1	<1.90E+0	2.20E+1
MD63	<3.00E+0	1.40E+1	1.20E+1	1.40E+1	<5.30E+1	2.70E+2	2.20E+2	2.10E+2	3.00E+2	<1.00E+0		3.70E+1
MD64	4.00E+0	1.00E+1	2.40E+1	2.20E+1	<6.20E+1	4.00E+2	1.80E+2	1.70E+2	5.30E+2	<6.00E-1		3.50E+1
MD65	2.90E+0	1.90E+1	2.50E+1	2.10E+1	<1.00E+2	4.40E+2	2.20E+2	2.20E+2	7.60E+2	<1.00E+0	<5.00E+0	1.50E+1
MD66	<2.00E+0	3.50E+1	2.40E+1	2.10E+1	<6.20E+1	4.10E+2	1.70E+2	1.70E+2	5.90E+2	<9.00E-1	2.20E+0	2.60E+1
MD67	<3.00E+0	1.70E+1	1.40E+1	1.50E+1	<5.20E+1	2.50E+2	2.00E+2	2.00E+2	2.70E+2	<5.00E-1	<3.00E+0	3.80E+1

DITCH COORDINATES (a)	ACTIVITY (pCi/g)											
	U-233	PA-231	TH-227	RA-223	TH-234	RA-226	PB-214	BI-214	PB-210	C[illegible]	232	K-40
MD68	1.20E+0	1.80E+1	1.90E+1	1.60E+1	<5.50E+1	3.40E+2	1.50E+2	1.40E+2	4.10E+2	<7[illegible]	[illegible]00E+0	3.50E+1
MD69	<3.00E+0	<3.00E+1	1.60E+1	1.80E+1	<6.80E+1	3.80E+2	2.70E+2	2.60E+2	4.30E+2	<1.3[illegible]	<4.20E+0	2.40E+1
MD70	2.60E+0	1.50E+1	2.10E+1	1.80E+1	9.70E+1	3.60E+2	1.30E+2	1.20E+2	4.30E+2	<7.00E-1	<2.90E+0	2.30E+1
MD71	<3.00E+0	1.30E+1	1.20E+1	1.30E+1	<5.30E+1	2.40E+2	1.60E+2	1.50E+2	2.50E+2			2.30E+1
MD72	<2.00E+0	6.50E+0	9.00E+0	9.30E+0	<3.70E+1	2.00E+2	1.30E+2	1.20E+2	2.60E+2	<4.00E-1	<1.00E+1	1.70E+1
MD73	<8.00E-1	2.50E+0	2.00E+0	1.50E+0	1.10E+1	4.10E+1	2.50E+1	2.40E+1	6.70E+1	<5.00E-1	1.20E+0	1.90E+1
MD74	<3.00E+0	<2.00E+1	1.50E+1	1.40E+1	<5.70E+1	2.90E+2	2.00E+2	1.90E+2	5.70E+2	<5.00E-1	3.00E+0	2.20E+1
MD75	<1.50E+0	<6.00E+0	3.20E+0	3.20E+0	1.90E+1	7.50E+1	6.10E+1	5.70E+1	1.45E+2	<1.50E+0	1.00E+0	2.90E+1
MD76	<4.00E+0	1.50E+1	2.20E+1	1.80E+1	<6.80E+1	3.50E+2	2.50E+2	2.50E+2	4.20E+2	<8.00E-1	<3.00E+0	4.10E+1
MD77	<2.00E+0		5.40E+0	4.80E+0	<2.20E+1	8.30E+1	5.50E+1	5.20E+1	1.50E+2			2.60E+1
MD78	<2.00E+0	1.70E+1	1.10E+1	1.00E+1	<5.00E+1	2.50E+2	1.20E+2	1.20E+2	2.50E+2	<6.00E-1	<3.00E+0	2.70E+1
MD79	<1.50E+0	<4.90E+0	3.00E+0	3.70E+0	<2.70E+1	9.00E+1	6.70E+1	6.40E+1	6.00E+1	<2.00E+0	1.50E+0	2.30E+1
MD80	<5.00E+0	3.00E+1	3.70E+1	3.40E+1	<9.00E+1	7.10E+2	3.10E+2	3.30E+2	6.10E+2	<8.00E-1		3.00E+1
MD81	9.00E-1	<6.00E+0	1.50E+0	1.10E+0	2.40E+1	2.40E+1	1.70E+1	1.50E+1	3.80E+1	<3.00E-1	1.10E+0	2.10E+1
MD83	4.90E+0	8.50E+0	8.60E+0	7.90E+0	9.90E+1	1.40E+2	1.50E+2	1.40E+2	1.90E+2	<5.00E-1	<3.00E+0	2.70E+1
MD85	2.90E+0	<1.50E+1	2.90E+0	3.00E+0	4.00E+1	5.00E+1	5.10E+1	5.20E+1	8.40E+1	<3.00E-1	1.00E+0	1.90E+1
MD87	<2.00E-1	<1.00E-1	<3.00E-1	<4.00E-1	4.20E+0	2.80E+0	2.20E+0	2.10E+0	6.10E+0	<1.00E-1	7.00E-1	2.20E+1
MD89	<4.00E-1	<8.00E-1	<4.00E-1	<4.00E-1	<6.50E+0	2.20E+0	1.90E+0	2.10E+0	4.80E+1	<2.00E-1	4.00E-1	2.10E+1
MD91	<4.00E-1	<1.80E+0	<1.10E+0	<6.00E-1	5.00E+0	3.00E+0	3.40E+0	3.10E+0	4.10E+0	<2.00E-1	1.10E+0	2.30E+1
MD93	<6.00E-1	<2.60E+0		3.00E-1	4.40E+0	8.50E+0	8.20E+0	7.80E+0	1.30E+1		1.00E+0	2.40E+1
MD95	<1.00E+0		3.10E+0	2.70E+0	<1.80E+1	6.10E+1	5.20E+1	4.90E+1	9.50E+1	<3.00E-1		2.30E+1
MD97	<1.70E+0	<7.70E+0	3.60E+0	4.00E+0	<2.80E+1	1.10E+2	9.40E+1	9.30E+1	1.10E+2			2.40E+1
MD99	<4.00E-1	<8.00E-1	<5.00E-1	<8.00E-1	<7.70E+0	9.00E+0	8.20E+0	6.40E+0	1.00E+1	<2.00E-1	8.00E-1	2.20E+1
MD100	<5.00E-1	<2.00E+0	<5.00E-1	<1.00E+0	<8.00E+0	7.50E+0	7.70E+0	7.40E+0	1.20E+1	<2.00E-1	9.00E-1	1.90E+1
MD101	1.30E+0	<1.00E+1	2.30E+0	2.00E+0	3.80E+1	4.00E+1	3.90E+1	3.90E+1	6.70E+1	<3.00E-1	1.10E+0	2.60E+1
MD103	<8.00E-1		1.90E+0	2.00E+0	<1.70E+1	5.00E+1	3.90E+1	3.80E+1	6.80E+1	<2.00E-1	<2.80E+0	2.10E+1
MD105	<7.00E-1	<3.50E+0	<1.00E+0	2.00E-1	1.40E+1	2.20E+1	2.80E+1	2.60E+1	2.50E+1	<2.00E-1	1.10E+0	2.30E+1
MD107	<1.40E+0	<6.50E+0	5.20E+0	5.40E+0	<2.30E+1	1.07E+2	1.05E+2	1.02E+2	1.07E+2	<4.00E-1	2.50E+0	2.40E+1

(a) Samples taken every 25 ft south to north (see Table I-1 for exact grid and distance location).

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TABLE I-3. INSTRUMENTAL READINGS AND ^{226}RA CONCENTRATIONS IN THE WEST DITCH

Distance from Initial Sampling Point,[a] ft (m)	Instrumental Readings: Gamma[b] (micro R/hr) at 1 m above Soil Surface	Instrumental Readings: Beta-Gamma[c] (milli R/hr) at 1 cm above Soil Surface	^{226}Ra Concentration (pCi/g): Screening[d]	^{226}Ra Concentration (pCi/g): Radiochemistry[e]	BCD Reference Code: Grid Coordinates	BCD Reference Code: ID
0				2.6		WD1
100(30.5)				4.2		WD2
500				23		WD6
700(213.5)				26		WD8
800				35		WD9
900				15		WD10
1,100(335.5)				6.7		WD12
1,200				11		WD13
1,300				3.6		WD14
1,400				18		WD15
1,500(452.5)				5		WD16
1,800				75		WD19
1,975[f]	180	3,000			S0.5W22	
2,000(610)	40	220			N1W22	WD21
2,025	100	300			N1.5W22	
2,050	120	360			N2W22	
2,075	50	150			N2.5W22	
2,100	40	120		59	N3W22	WD22
2,125	30	100			N3.5W22	
2,150	22	90			N4W22	
2,175	21	100			N4.5W22	
2,200	16	80			N5W22	WD23
2,225	28	110			N5.5W22	
2,250	40	120			N6W22	
2,275	26	100			N6.5W22	
2,300	26	60			N7W22	WD24
2,325	27	50			N7.5W22	
2,350	27	100			N8W22	
2,375	25	60			N8.5W22	
2,400	17	70		43	N9W22	WD25
2,425	14	80			N9.5W22	
2,450	13	50			N10W22	
2,475	16	70			N10.5W22	

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TABLE I-3. (Continued)

Distance from Initial Sampling Point,[a] ft (m)	Instrumental Readings: Gamma[b] (micro R/hr) at 1 m above Soil Surface	Instrumental Readings: Beta-Gamma[c] (milli R/hr) at 1 cm above Soil Surface	^{226}Ra Concentration (pCi/g): Screening[d]	^{226}Ra Concentration (pCi/g): Radiochemistry[e]	BCD Coor	...es	...ce Code ID
2,500[g] (762.5)	14	60			N11W22		WD26
2,525	19	90			N11.5W22		
2,550	18	70			N12W22		
2,660	10-20		<4	3.1			400
2,700	10-20			7.8			WD28
2,760	10-20						401
2,860	10-20						402
2,960	10-20						403
3,060(933.3)	10-20						404
3,160	10-20			11.5			405
3,260	10-20		<4				406
3,360	10-20						407
3,460	10-20		<5				408
3,660	10-20?		<4	3.2			410
3,960	10-20		>5				413
4,160	10-20		>5				415
4,660	10-20			19.9			420
4,760	10-20		>5				421
4,860	10-20		>5				422
4,960	10-20		>5				423
5,060(1543.3)	10-20		>5				424
5,160	10-20		<4				425
5,260	10-20		<4				426
5,360	10-20		<4				427
5,460	10-20		>5				428

(a) Sampling initiated off-site in ditch due west on grid point S36W18 (see Figure I-1).

(b) Gamma readings taken at 1 m above sediment or water surface; background 13 μR/hr.

(c) Beta-gamma readings taken at 1 cm above sediment or water surface; background 60 μR/hr.

(d) Measurement of ^{214}Bi as index of ^{226}Ra (see QA Document NS-NS-122).

(e) Gamma spectroscopy, background concentration average in sediment 0.5 pCi/g (±0.1) (Complete listings of radionuclide composition of on-site sediments on Table I-4).

(f) Sample just north of Site perimeter fence on south side of West Patrol Rd. (see Figure I-1).

(g) Sample 60 ft south of north perimeter fence which is at 2,560 ft (see Figure I-1).

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TABLE I-4. RADIONUCLIDES IN ON-SITE SEDIMENT SAMPLES OF THE WEST DITCH

DITCH COORDINATES (a)	ACTIVITY (pCi/g)											
	U-235	PA-231	TH-227	PA-223	TH-234	PA-226	PB-214	BI-214	PB-210	CS-137	TH-232	K-40
WD1 (b)	4.00E-1	<2.70E+0	<5.00E-1	<8.00E-1	9.90E+0	2.60E+0	1.10E+0	1.10E+0	<1.00E+1	1.40E+0	9.50E-1	2.20E+1
WD2	1.90E+0	<2.00E+0	<7.00E-1	<6.00E-1	5.10E+1	4.20E+0	4.00E+0	3.90E+0	1.30E+1	3.20E+0	1.30E+0	2.30E+1
WD6	1.00E+0		1.00E+0	9.00E-1	2.00E+1	2.30E+1	1.60E+1	1.40E+1	2.00E+1	1.00E+0	1.50E+0	2.10E+1
WD8	8.00E-1	<3.00E+0	6.00E-1	8.00E-1	2.50E+1	2.60E+1	2.00E+1	1.90E+1	2.20E+1	1.20E+0	1.20E+0	1.90E+1
WD9	1.20E+0	<5.00E+0	7.00E-1	8.00E-1	3.40E+1	3.50E+1	3.60E+1	3.50E+1	3.70E+1	2.10E+0	1.90E+0	1.90E+1
WD10	1.90E+0	5.00E-1	5.00E-1	4.00E-1	4.10E+1	1.50E+1	9.60E+0	8.60E+0	1.50E+1	<2.00E+0	1.10E+0	2.00E+1
WD12	<5.00E-1	<2.10E+0	<1.00E+0	<1.10E+0	1.00E+1	6.70E+0	5.00E+0	4.50E+0	6.10E+0	7.00E-1	1.30E+0	2.10E+1
WD13	2.00E+0	<3.00E+0	<1.00E+0	4.00E-1	4.10E+1	1.10E+1	6.50E+0	6.70E+0	1.20E+1	1.70E+0	1.20E+0	1.70E+1
WD14	<3.00E-1	<1.80E+0	<7.00E-1	<5.00E-1		3.60E+0	3.50E+0	2.40E+0	3.60E+0	2.00E-1	8.00E-1	1.90E+1
WD15	1.40E+0	<6.00E+0	<1.20E+0	<1.00E+0	3.20E+1	1.80E+1	1.70E+1	1.60E+1	2.20E+1	2.40E+0	1.70E+0	2.10E+1
WD16	<3.00E-1	<1.60E+0		<8.00E-1	1.80E+1	5.00E+0	4.00E+0	4.60E+0	6.80E+0	7.00E-1	9.00E-1	2.20E+1
WD19	4.50E+0	<5.80E+0	2.20E+0	2.80E+0	9.00E+1	7.50E+1	3.30E+1	3.30E+1	5.50E+1	6.60E+0	2.90E+0	2.50E+1
WD22	<4.10E+0	1.20E+1	1.90E+1	1.60E+1	<6.50E+1	5.90E+2	2.00E+2	1.90E+2	6.90E+2	9.00E-1	2.00E+0	3.50E+1
WD25	1.10E+0	3.00E+0	1.70E+0	9.00E-1	<1.50E+1	4.30E+1	1.00E+1	1.70E+1	2.90E+1	2.40E+1	1.70E+0	2.30E+1
WD28	<7.00E-1		<9.00E-1	<8.00E-1	9.20E+0	7.80E+0	5.40E+0	4.80E+0	8.00E+0	2.20E+0	1.00E+0	2.40E+1

(a) Samples taken south to north off-site every 100 ft, on-site every 25 ft (see Table I-3 for exact grid and distance location).

(b) Sample starting point is off-site due west of residue storage buildings.

TABLE I-5. INSTRUMENTAL SURVEY DATA FROM SOUTH 31 DITCH

Location (Grid Points)	Beta-Gamma[a] (mR/hr)	Gamma[b] (mR/hr)
S31W8	0.42	0.18
S31W7	0.30	0.15
S31W6	0.27	0.10
S31W5	0.20	0.06
S31W4	0.20	0.15
S31W3[c]	0.23	0.17
S31W2	0.16	0.10
S31W1	0.18	0.07
S31E1	0.12	0.08
S31E2	0.15	0.09
S31E3	0.15	0.10
S31E5	0.13	0.06
S31E6	0.19	0.04
S31E7	0.13	0.05
S31E8	0.07	0.04
S31E11	0.11	0.05
S31E12	0.07	0.05
S31E13[d]		

[a] Background, 0.06 mR/hr.

[b] Background, 0.01 mR/hr.

[c] Gamma spectroscopy analysis determined ^{226}Ra concentration to be 5.0 pCi/g.

[d] Sampling points S31E13 through S31E20 at background.

TABLE I-6. RADIONUCLIDES IN ON-SITE DRILL CORES FROM THE CENTRAL DRAINAGE DITCH

Grid Location	Depth (ft)	^{235}U	^{231}Pa	^{227}Th	^{223}Ra	^{219}Rn	^{234}Th	^{234}Pa	^{226}Ra	^{214}Pb	^{214}Bi	^{232}Th	^{137}Cs	^{40}K	^{210}Pb
S20W8	2	0.5	<2	0.2	<0.5	<0.5	11	<22	3.8	3.2	3.2	1.5	<0.2	23	<4
S20W8	4	<0.8	<1.5	0.2	<0.5	<0.5	5.4	<12	6.9	6.5	6.4	0.7	<0.1	20	6
S24W8	0	<1	<30	12	12	13	<9	<50	280	180	180	<5	<0.5	21	260
S24W8	2	0.4	<2	<0.3	<0.3	<0.3	8.5	<20	2.1	1.4	1.3	0.8	<0.07	21	<3
S24W8	6	<0.5	<2	<0.7	<0.6	<0.6	4.1	<24	1.6	1.3	1.4	1.1	<0.2	20	<3
S26W8	2	<0.9	<3.7	<1	0.7	0.8	<11	<30	19	13	13	0.8	<0.3	14	15
S26W8	4	<0.9	<5	<1.4	1.3	0.3	<15	<46	29	21	21	1.5	<0.3	19	27

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TABLE I-7: RADIONUCLIDES SITE DRILL CORES FROM THE CENTRAL DRAINAGE DITCH

Sample Number[a]	Depth (ft)	U235	Pa231	Th227	Ra223	Rn223	Th234	Pa234	Ra226	Pb214	Bi214	Th232	Cs137	Pb210
		pCi/g												
200	2	<0.4	<0.9	<0.5	<0.6	<0.6	--	--	1.3	0.9	1	0.7	<0.2	<2
	4	<0.3	<1.2	--	<0.4	<0.4	4.0	--	1.1	1	0.9	1	<0.1	<2
	6	<0.3	--	--	<0.7	<0.7	--	<33	1.1	0.8	0.9	1	<0.2	<2
203	2	--	<2.6	<0.8	<0.8	<0.8	<7	--	2	2	2.6	--	<0.3	
	4	0.3	<1.8	--	<0.5	<0.5	7.1	<22	0.8	0.5	0.7	0.7	<0.2	<2
207	2	<0.3	--	<0.4	<0.4	<0.4	--	--	1.1	0.9	1	0.5	<0.1	<2
211	2	<0.6	<1.1	--	<1	<1	--	--	1.5	1	1.7	1.4	<0.4	<2
	4	<0.5	--	--	<0.7	<0.7	5	<33	2.4	1.8	3.1	0.7	<0.2	
	6	<0.3	--	<0.5	<0.4	<0.4	<4.7	--	1.4	1	1.1	0.9	<0.1	<2
214	2	<0.4	--	<0.5	<0.5	<0.5	--	--	3.5	3.6	2.5	1.3	<0.2	
	4	<0.4	--	<0.6	<0.5	<0.5	<4.5	<25	1.7	1.5	1.3	1.2	<0.2	<2
222	2	<0.3	--	<0.9	<0.5	<0.5	<3.5	--	1.3	1.1	1.5	1	<0.2	<2
	4	<0.5	--	<0.6	<0.6	<0.6	--	<24	2.4	2	1.7	1.2	<0.3	
223.5	4	--	--	<0.8	<0.4	<0.4	--	--	0.9	0.6	0.8	0.7	<0.2	<2
224	2	<0.5	--	--	<0.6	<0.6	5	--	1.7	1.6	1.6	1.2	<0.1	
	4	<0.3	--	--	<0.4	<0.4	<3.4	--	1.8	0.8	1.4	0.8	<0.2	
229.5	2	<0.4	--	--	<0.5	<0.5	3.8	--	1.5	1.3	1.3	1	<0.1	<2
	4	<0.3	--	--	<0.5	<0.5	3.5	--	1.8	1.3	1.3	0.8	<0.1	
300	2	<0.5	<1.8	--	<0.6	<0.6	<7	--	1.4	1	1.2	0.7	<0.3	<2
	4	<0.3	<1.3	<0.5	<0.4	<0.4	<5.1	--	0.6	0.8	0.8	0.8	<0.1	<2
302	2	<0.4	--	<0.8	<0.5	<0.5	<5.2	--	1	0.7	0.9	0.4	<0.1	<2
	4	<0.3	<1.3	<0.5	<0.5	<0.5	<3.4	--	0.8	0.7	0.7	0.7	<0.1	<2
	6	<0.3	--	<0.5	<0.4	<0.4	--	<23	1.1	0.9	0.9	0.3	<0.1	<2
304	2	<0.3	<1.4	<0.4	<0.4	<0.4	<3.8	--	2.2	1.7	2	1	<0.2	
	4	<0.3	<1.3	<0.5	<0.4	<0.4	3.7	--	1.3	1.4	1.2	0.8	<0.1	<2
	6	<0.3	--	--	<0.5	<0.5	--	--	1.6	1.2	1.6	0.9	<0.1	
306	6	<0.4	--	<0.6	<0.5	<0.5	4.9	<19	0.9	0.7	1	0.6	<0.2	<2
308	2	<0.3	--	<0.9	<0.6	<0.6	<5	--	1.2	1.2	1.1	1	<0.1	<2
	4	<0.3	--	<0.4	<0.5	<0.5	<5	--	1	0.7	1	1.1	<0.1	<2
312	2	<0.3	<1.2	<0.6	<0.5	<0.5	<6	--	1.1	1	1.1	0.8	<0.2	<2
	4	<0.3	--	<0.4	0.3	0.3	5.9	<25	2	2.5	1.9	0.7	<0.2	
	6	<0.2	--	--	<0.3	<0.3	<7	<30	1.5	0.9	1.1	1.1	<0.1	<2
316	2	<0.3	<1.7	<0.5	<0.5	<0.5	3	<25	1.6	1.5	1.4	0.7	<0.3	
	4	<0.3	<1.4	--	<0.5	<0.5	<3.7	--	1.2	0.9	1.1	0.8	<0.2	<2

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TABLE I-7. (Continued)

Sample Number[a]	Depth (ft)	pCi/g												
		U235	Pa231	Th227	Ra223	Rn223	Th234	Pa234	Ra226	Pb214	Bi214	Th232	Cs137	Pb210
319	2	<0.3		<0.6	<0.4	<0.4	<5	--	1.4	0.9	0.9	1.2	<0.2	<2
	4	<0.3	--	<0.4	<0.4	<0.4	--	<28	1.3	1.1	1.1	0.8	<0.2	<2
320	2	<0.2	--	<0.4	<0.4	<0.4	<2.4	--	0.9	0.8	1	0.9	<0.1	<2
	4	--	--	<0.4	<0.6	<0.6	<4.2	--	1.3	1	1.4	0.7	<0.1	<2
324	2	<0.3	<1.3	<0.8	<0.4	<0.4	<4.7	<13	1	0.4	0.5	0.6	<0.1	<2
	4	<0.4	<1.5	--	<0.8	<0.8	2.4	--	1.2	0.6	0.9	1.3	<0.2	<2
326	2	<0.4	--	<0.9	<0.5	<0.5	<4.1	<20	1.6	1.4	1.2	0.8	<0.2	<2
328	2	<0.3	<1.5	<0.8	<0.5	<0.5	<4.5	--	1.2	0.9	1.1	0.9	<0.1	<2
	4	<0.4	--	<0.4	<0.4	<0.4	--	<30	2	1.8	1	0.9	<0.2	
330	2	<0.4	<1.8	<1.1	<0.6	<0.6	<6.4	<30	2.1	1.6	2.3	1	<0.2	
344	2	<0.5	<2.2	<0.8	<0.7	<0.7	<8	--	2.4	1.9	2.1	0.8	<0.3	
	4	<1.4	<5.6	<1.6	<1.3	<1.3	--	--	29	23	21	1.3	<0.4	
	6	<0.3	<0.6	<0.3	<0.4	<0.4	3.2	--	1	0.3	0.7	0.8	<0.1	<2
345	2	<0.4	<1.7	<0.5	<0.6	<0.6	--	<15	3	1.7	1.8	0.6	<0.3	
	4	<0.3	<1.4	--	<0.5	<0.5	5.5	--	0.9	0.6	0.6	1	<0.1	<2
	6	<0.4	<4.2	<1.2	<0.6	<0.6	<10	<30	1.4	1.1	1	0.5	<0.2	
348	2	<0.4	<1.5	<1.0	--	--	<4	<19	1.5	0.6	1	1.4	<0.2	<2
	4	<0.3	<1.3	<0.8	<0.6	<0.6	6.1	<17	<1	0.4	0.8	0.3	<0.1	<2
350	2	<0.4	<1.6	<0.6	--	--	7.4	--	1	0.6	0.8	0.6	<0.3	<2
	4	<0.4	<1.8	<0.6	<0.5	<0.5	<4.7	<40	1.4	1.1	0.9	0.9	<0.2	
	6	<0.3	--	<0.4	<0.4	<0.4	<4	<15	1.2	0.8	0.7	0.7	<0.1	<2
355		<0.4	<1.9	<0.4	0.2	<0.5	5.0	<13	7	5.2	5.0	1.0	0.8	5
356		<0.2	<2.0	<0.5	<0.6	<0.6	<5.6	<24	8.0	5.6	5.5	0.9	1.0	8
357		<0.2	<2.0	<0.5	<0.5	<0.5	<7.2	<26	8.4	6.5	6.5	1.0	0.8	8
359		<0.2	<2.3	<0.3	<0.3	<0.3	3.4	<10	3.7	3.3	3.1	0.9	0.1	<4
361		<0.4	<1.8	<0.4	<0.5	<0.5	<4.9	<29	4.5	3.7	3.8	0.8	0.8	4
368		<0.2	<2.2	<0.2	<0.3	<0.3	2.9	<8	4.2	3.0	2.8	0.5	0.2	<4
370		<0.4	<1.5	<1.0	<0.5	<0.5	<4.0	<22	2.6	1.9	1.8	0.8	<0.2	<4

(a) See Table I-1 for exact distance location and Figure I-1 for general location.

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TABLE I-8. RADIONUCLIDES IN OFF-SITE DRILL CORES FROM THE WEST DITCH

Sample Number[a]	Depth (ft)	pCi/g												
		U^{235}	Pa^{231}	Th^{227}	Ra^{223}	Rn^{223}	Th^{234}	Pa^{234}	Ra^{226}	Pb^{214}	Bi^{214}	Th^{232}	Cs^{137}	Pb^{210}
400	2	<0.3	<1.3	<0.5	<0.5	<0.5	4	--	1.1	0.9	1	0.7	<0.2	<2
	4	<0.3	<1.6	<0.9	<0.4	<0.4	<4	--	1	0.9	1	0.5	<0.1	<2
	6	--	--	<1.3	<0.8	<0.8	<5.6	--	1.8	1.2	0.7	1	<0.2	
402	2	<0.4	<1.3	--	<0.5	<0.5	<4	<17	2.2	1.8	2.2	1.1	<0.1	
	4	<0.3	<1.4	--	<0.4	<0.4	<3.4	<27	1.3	1.2	1	0.9	<0.2	<2
407	2	<0.4	--	<1	<0.4	<0.4	--	--	2.1	1.9	2.1	1	<0.2	
	4	<0.3	--	<0.4	<0.4	<0.4	<3.8	<32	1.8	1.3	1	--	<0.1	<2
409	2	<0.4	<1.4	<0.6	<0.5	<0.5	<4.2	--	1.2	1.1	1	0.4	<0.3	<2
	4	<0.3	--	--	<0.6	<0.6	<4.7	--	1.2	0.6	1	1	<0.2	<2
412	2	<0.2	<1.3	<0.5	<0.2	<0.2	<2.1	--	1.1	0.8	0.8	0.6	<0.1	<2
	4	<0.3	<0.9	<0.4	<0.4	<0.4	<3.5	--	1.3	0.8	1.1	1.5	<0.1	<2
416	2	<0.3	--	--	<0.4	<0.4	--	--	2	1.8	1.9	1.1	<0.2	
	4	<0.4	<1.2	<0.6	<0.5	<0.5	<4.2	--	1.2	0.7	1.1	1.2	<0.2	<2
420	2	<0.3	--	<0.9	<0.5	<0.5	<6.5	<14	1.2	1.2	0.9	1.3	<0.1	<2
	4	<0.4	--	<0.4	<0.5	<0.5	--	--	1.8	1.7	1.4	1.1	<0.1	
422	2	<0.4	--	<0.9	<0.4	<0.4	--	--	1.5	0.7	1.4	0.7	<0.2	<2
422.5	4	--	--	<0.6	<0.4	<0.5	--	<17	1.8	1.3	1.3	1	<0.2	
425	2	<0.4	--	<0.9	<0.5	<0.5	<3.8	--	2.9	2.8	2.7	1	<0.2	
	4	<0.2	--	<0.7	<0.5	<0.5	<3.6	--	1.2	0.9	1.1	1	<0.1	<2
427	2	<0.3	--	<0.6	<0.4	<0.4	<3.8	<21	1.3	1	1	1	<0.1	<2
	4	<0.3	<1.1	--	<0.5	<0.5	<3.5	--	1.4	1.1	1	1.2	<0.1	<2
429	2	<0.4	<1	--	<0.4	<0.4	5	--	1.3	1	1.2	1	<0.2	<2

(a) See Table I-3 for exact distance location and Figure I-1 for general location.

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TABLE I-9. RADIOCHEMICAL SCREENING OF CORES IN THE SOUTH 31 DITCH

Location	Depth (ft)	^{226}Ra Concentration (pCi/g) Screening[a]
S31E18	2	<4
	4	<4
S31E15	2	<4
	4	<4
S31E4.5	2	>5
	4	<4
S31W5	2	<4
S31W7	2	<4
	4	<4
S31W8.5	2	<4
	4	<4

[a] Measurement of ^{214}Bi as index of ^{226}Ra (QA Document NS-NS-122).

TABLE I-10. ^{226}RADIUM IN SEDIMENTS OF TRIBUTARIES TO THE CENTRAL DRAINAGE DITCH OR FOURMILE CREEK

Location[a] (ID Code)	^{226}Ra Concentrations (pCi/g)	
	Screening[b]	Radiochemistry[c]
500		
501	<4	1.3
502	<4	2.1
503	<4	
590	<4	
599	<4	
600	<4	
601	<4	1.2
602	<4	1.2
610	<4	
700		
701	<4	
702	<4	0.6
703	<4	
704	<4	
705	<4	0.7
R800	<4	
R801	<4	1.1
R802	<5	
R803	<4	
R804	<4	
R805	<4	
R806	<4	
R807	<4	4.5
903	<4	0.9
907		0.7
912	<4	
913	<4	
914	<4	
1100	<4	1
1102	<4	
1104	<4	0.3

(a) See Figure I-1.

(b) Measurement of ^{214}Bi as index of ^{226}Ra (see QA Document NS-NS-122).

(c) Gamma spectroscopy, background concentration average in sediment 0.5 pCi/g (±0.1).

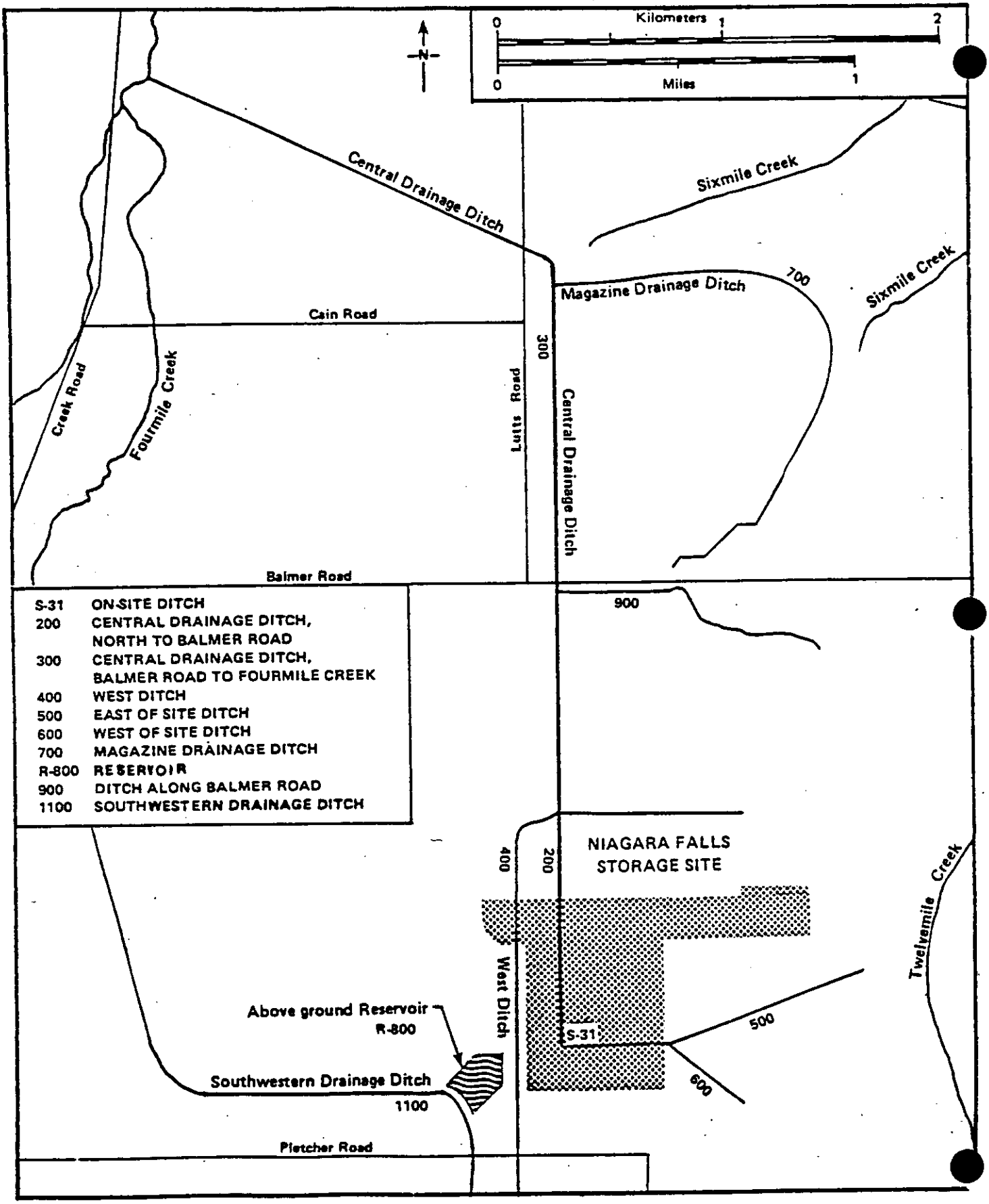

FIGURE I-1. OFF-SITE SAMPLING LOCATIONS IN THE DRAINAGES AND TRIBUTARIES OF THE DOE-NIAGARA FALLS STORAGE SITE

TABLE I-11. INSTRUMENTAL SURVEY DATA FROM BUILDING 434 DITCH

Location (Grid Points)	Beta-Gamma[a] (mR/hr)	Gamma[b] (mR/hr)
	NORTH BRANCH	
N9.2E37	0.05	0.05
N9.2E38	0.04	0.04
N9.2E39	0.05	0.04
N9.2E40	0.06	0.06
N9.2E41	0.06	0.06
N9.2E42	0.07	0.07
N9.2E43	0.07	0.07
N9.2E44	0.08	0.08
N9.2E45	0.08	0.10
N9.2E46	0.10	0.14
N9.2E47	0.13	0.14
N9.2E48	0.15	0.15
N9.2E49	0.25	0.25
N9.2E50	0.24	0.24
N9.2E51	0.30	0.40
	SOUTH BRANCH	
N8.7E37	0.05	0.05
N8.7E38	0.04	0.04
N8.7E39	0.05	0.05
N8.7E40	0.06	0.06
N8.7E41	0.06	0.06
N8.7E42	0.04	0.07
N8.7E43	0.07	0.07

[a] Background, 0.11 mR/hr.

[b] Background, 0.01 mR/hr.

TABLE I-12. INSTRUMENTAL SURVEY DATA FROM SOUTH 16 DITCH

Location (Grid Points)	Beta-Gamma[a] (mR/hr)	Gamma[b] (mR/hr)
S16W7	0.22	0.14
S16W6	0.22	0.20
S16W5	0.24	0.17
S16W4	0.23	0.18
S16W3	0.15	0.12
S16W2	0.15	0.10
S16W1	0.17	0.13
S16E1	0.15	0.08
S16E2	0.15	0.12
S16E3	0.13	0.08
S16E4	0.10	0.08
S16E5	0.12	0.07
S16E7	0.12	0.07
S16E8	0.20	0.10
S16E9	0.10	0.07
S16E10	0.10	0.10
S16E11	0.10	0.10
S16E12	0.10	0.06
S16E13	0.05	0.05
S16E14	0.05	0.05
S16E15	0.05	0.05
S16E16	0.05	0.05
S16E17	0.05	0.05
S16E18	0.02	0.02
S16E19	0.03	0.02

[a] Background, 0.11 mR/hr.

[b] Background, 0.01 mR/hr.

TABLE I-13. INSTRUMENTAL SURVEY DATA FROM LUTTS ROAD DITCH

Location (Grid Points)	Beta-Gamma[a] (mR/hr)	Gamma[b] (μR/hr)
S29W17	0.08	(c)
S28W17	0.11	(c)
S27W17	0.50	(c)
S26W17	3.50	(c)
S25W17	1.80	(c)
S24W17	0.60	(c)
S23W17	1.40	(c)
S22W17	1.50	(c)
S21W17	0.18	(c)
S20W17	0.70	1200
S19W17	0.06	450
S18W17	0.60	950
S17W17	0.25	600
S16W17	3.80	2500
S15W17	0.04	300
S14W17	0.06	200
S13W17	0.08	260
S12W17	0.13	160
S11W17	0.31	400
S10W17	0.24	230
S9W17	0.60	600
S8W17	0.06	120
S7W17	0.05	120
S6W17	0.04	60
S5W17	0.03	55
S4W17	0.06	40
S3W17	0.04	40
S2W17	0.06	25
S1W17	0.03	20
NOW17	0.10	11
NOW16	0.11	15
NOW15	0.10	13
NOW14	0.15	15
NOW13	0.13	11
NOW12	0.11	13
NOW11	0.10	11
NOW10	0.11	15
NOW9	0.11	12

(a) Background, 0.11 mR/hr.

(b) Background, 13 μR/hr.

(c) Meter readings inaccurate from S29W17 to S21W17.

TABLE I-14. ^{226}RADIUM IN SEDIMENTS OF NATURAL DRAINAGES

Location[a]	^{226}Ra Concentration (pCi/g) Screening[b]	Radiochemistry[c]
	FOURMILE CREEK	
F1A	<4	
F1B		0.4
F2A	<4	
F2B	<4	0.7
F3A	<4	
F3B	<4	
F4A	<4	
F4B	<4	
F5A	<4	
	SIXMILE CREEK	
S1A	<4	0.4
S1B	<4	
S2A	<4	0.8
S3A	<4	
S3B	<4	
S4	<4	
S5	<5	
	TWELVEMILE CREEK	
T1A	<4	
T1B	<4	
T2	<4	
T3B	<4	
T4B	<4	
T5	<4	

(a) See Figure I-2.

(b) Measurement of ^{214}Bi as index of ^{226}Ra (see QA Document NS-NS-122).

(c) Gamma spectroscopy, background concentration average in sediment 0.5 pCi/g (±0.1). Determined from samples T10, T11, T12, taken from a branch of Twelvemile Creek.

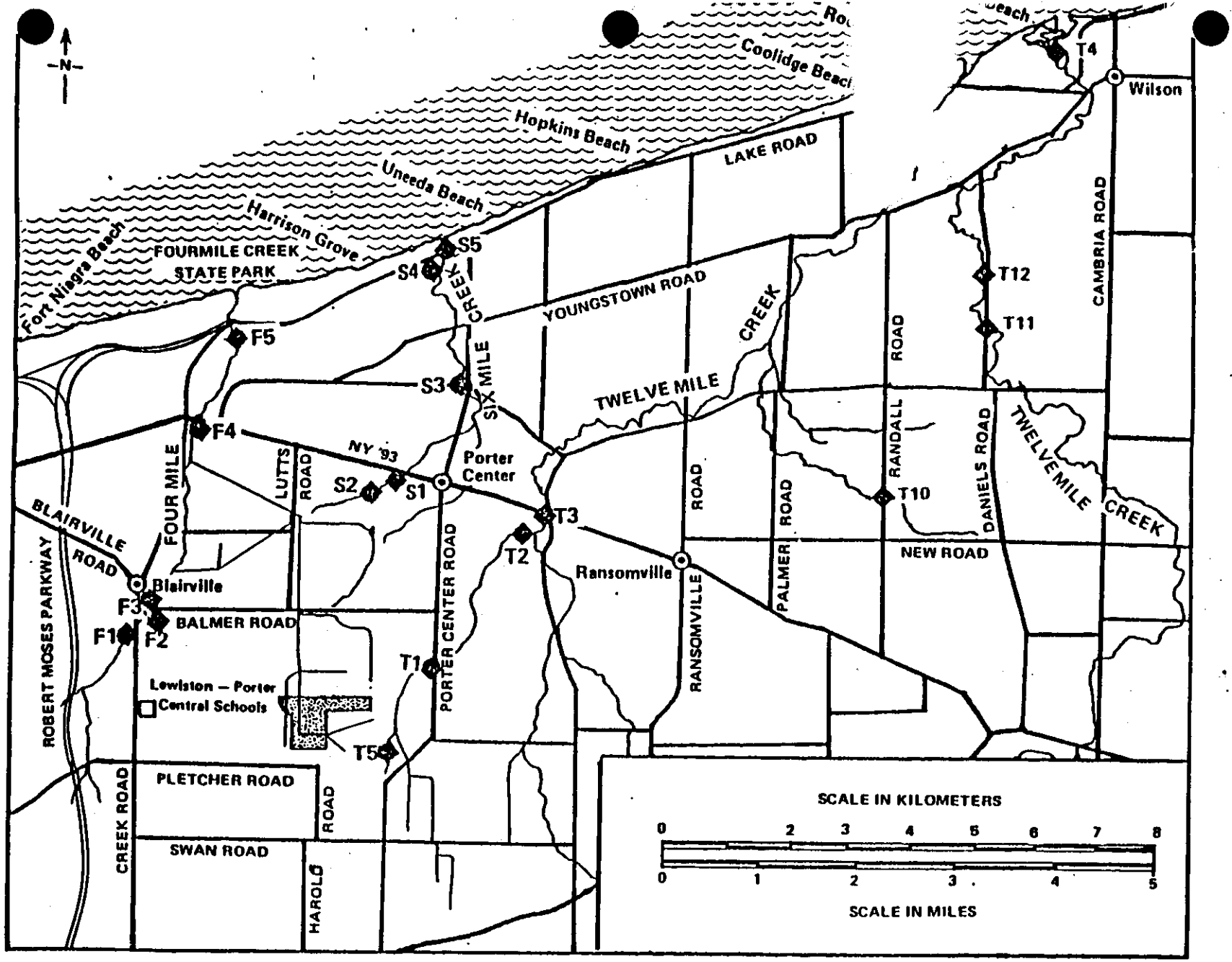

FIGURE I-2. OFF-SITE SAMPLING LOCATION IN THE NATURALLY OCCURRING CREEKS IN THE VICINITY OF THE NIAGARA FALLS STORAGE SITE

TABLE I-15. MASS SPECTROGRAPHIC ANALYSES OF ON-SITE CENTRAL DRAINAGE DITCH SEDIMENTS IN PARTS PER MILLION (PPM)

	Location[a]									
Element	S26.5W8	411 Roof Pipe	S25W8	S20W8	S18.5W8	S16W8	S12.5W8	S5.5W8	N4W8	N12W8
Li	300	100	30	100	200	200	100	30	30	100
Be	0.2	0.5	0.3	0.2	0.5	0.1	0.2	0.2	0.3	0.2
B	200	30	50	50	50	30	20	10	50	30
F	100	10	30	200	2000	500	10	200	10	20
Na	~1%	3000	500	~1%	5000	~2%	5000	5000	2000	5000
Mg	~3%	~3%	~1%	~2%	~2%	~2%	~5%	~2%	~1%	~1%
Al	~20%	~20%	~20%	~20%	~20%	~20%	~20%	~20%	~20%	~20%
Si	~40%	~3%	~40%	~40%	~30%	~40%	~40%	~30%	~40%	~40%
P	300	2000	100	300	2000	200	300	300	200	200
S	200	200	200	300	1000	300	50	100	20	100
Cl	5	30	1	3	50	5	2	2	3	3
K	~2%	3000	3000	~2%	~1%	~1%	~1%	~1%	~1%	~2%
Ca	~1%	5000	3000	3000	~2%	~1%	~1%	5000	~1%	~2%
Sc	20	30	10	10	20	10	10	20	20	20
Ti	1000	2000	500	500	3000	1000	1000	1000	5000	~1%
V	50	1000	50	30	100	50	30	20	50	50
Cr	20	50	30	30	200	20	20	10	10	20
Mn	500	500	100	300	2000	200	1000	100	200	500
Fe	~1%	~2%	~1%	~2%	~5%	~1%	~1%	~1%	~1%	~1%
Co	300	5000	300	50	200	200	30	100	10	20
Ni	100	5000	1000	50	200	1000	50	50	10	50
Cu	50	1000	200	20	200	50	20	20	10	20
Zn	10	20	5	1	20	1	2	5	2	2
Ga	5	5	1	2	10	1	1	3	5	1
Ge	<0.3	<0.2	<0.2	<0.3	<0.2	<0.3	<0.3	<0.2	<0.3	<0.5
As	1	10	1	1	3	1	0.5	1	1	3
Se	<1	<0.5	<0.3	<0.5	<0.3	<0.5	<0.3	<0.3	<1	<1
Br	0.5	0.2	0.2	0.3	1	0.3	0.1	0.3	0.1	0.5
Rb	20	100	50	30	500	100	20	50	100	30
Sr	30	50	30	50	500	100	50	100	50	100

BLE I-15. (Continued)

Element	Location[a]									
	S26.5W8	411 Roof Pipe	S25W8	S20W8	S18.5W8	S16W8	S12.5W8	S5.5W8	N4W8	N12W8
Y	3	30	5	3	10	3	3	5	3	10
Zr	30	20	30	5	5	10	10	50	30	50
Nb	0.5	5	2	1	3	1	1	2	3	5
Mo	2	20	2	0.5	1	2	1	1	0.2	1
Ru	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Rh	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pd	<0.3	<0.5	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.3
Ag	<0.1	<0.2	0.2	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Cd	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2
In	<0.1	<0.1	<0.05	<0.1	<0.05	<0.05	<0.1	<0.05	<0.05	<0.2
Sn	3	20	20	2	2	3	1	0.2	0.2	1
Sb	0.1	<0.2	<0.1	0.1	<0.1	0.1	<0.1	<0.2	<0.1	0.1
Te	<0.3	<0.5	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.3	<0.3
I	0.1	<0.2	<0.1	0.1	<0.1	0.05	0.05	<0.1	<0.05	0.05
Cs	2	1	0.1	1	10	0.5	1	2	5	5
Ba	50	1000	50	100	5000	100	100	100	100	200
La	10	500	10	2	50	2	1	10	5	5
Ce	10	500	20	10	100	10	2	100	10	20
Pr	5	300	10	1	10	1	1	10	5	10
Nd	5	500	10	5	20	5	2	10	10	20
Sm	0.5	50	0.5	0.5	1	0.5	0.5	1	0.5	10
Eu	0.2	10	0.3	0.2	0.5	0.2	0.2	0.5	0.3	2
Gd	0.3	30	0.3	0.5	5	0.3	0.3	2	0.5	3
Tb	0.1	1	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.3
Dy	0.3	5	0.3	0.3	0.5	0.3	0.3	0.5	0.5	5
Ho	<0.1	0.5	0.1	0.1	0.1	<0.1	0.1	0.1	0.1	1
Er	<0.2	2	0.2	0.2	0.2	<0.2	<0.2	0.2	0.2	2
Tm	<0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1	0.5
Yb	<0.3	<0.5	<0.3	<0.3	0.3	<0.3	<0.3	<0.3	0.3	5
Lu	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1

TABLE I-15. (Continued)

Element	Location[a]									
	S26.5W8	411 Roof Pipe	S25W8	S20W8	S18.5W8	S16W8	S12.5W8	S5.5W8	N4W8	N12W8
Hf	<0.3	1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.5	0.3
Ta	<0.2	<0.3	<0.2	<0.1	<0.2	<0.1	<0.2	<0.5	<0.2	<0.2
W	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Re	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Os	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ir	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2
Pt	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Au	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hg	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Tl	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bi	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Th	0.1	2	<0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2
U	200	20	10	10	10	10	1	2	0.3	1
^{204}Pb	0.1	0.1	<0.1	<0.2	0.1	<0.2	<0.1	<0.1	<0.1	<0.1
^{206}Pb	30	50(b)	50	5	10	20	5	2	0.1	1
^{207}Pb	1	2(b)	1	0.3	1	1	0.3	0.1	<0.1	0.2
^{208}Pb	1	0.2(b)	0.3	0.5	2	0.3	0.3	0.2	0.1	0.3

(a) These coordinates are approximate locations and do not exactly correspond to the grid coordinates.

(b) Inhomogeneous.

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TABLE I-16. MASS SPECTROGRAPHIC ANALYSES (PPM) OF ON-SITE AND OFF-SITE WEST DITCH SEDIMENT SAMPLES

	Location (ppm)					
Element	S24W22[a] (WD6)	S2W22[a] (WD19)	S14W22[a] (WD15)	N3W22 (WD22)	N9W22 (WD25)	140' N of Site Boundary (WD28)
Li	100	100	200	50	300	50
Be	0.2	0.2	0.2	0.3	0.2	0.2
B	10	20	20	50	20	10
F	5	2	3	10	20	10
Na	~2%	~1%	5000	2000	5000	3000
Mg	~2%	~2%	~1%	~2%	~2%	~2%
Al	~20%	~20%	~20%	~20%	~20%	~20%
Si	~40%	~40%	~40%	~40%	~30%	~40%
P	300	500	300	500	100	300
S	200	500	200	100	100	100
Cl	3	2	0.5	5	2	2
K	~1%	5000	~1%	~3%	~1%	~2%
Ca	5000	3000	3000	~2%	5000	5000
Sc	10	10	10	30	20	20
Ti	1000	1000	1000	5000	1000	500
V	20	20	20	100	20	20
Cr	30	20	10	30	10	10
Mn	200	300	100	2000	200	300
Fe	5000	~2%	~1%	~3%	~1%	~1%
Co	10	10	5	300	5	10
Ni	20	20	10	100	10	20
Cu	10	20	5	50	10	5
Zn	1	10	1	5	10	1
Ga	1	1	1	3	5	5
Ge	<0.3	<0.3	<0.2	<0.5	<0.2	<0.2
As	0.5	1	0.5	1	0.5	1
Se	<0.5	<0.5	<0.3	<1	<0.3	<0.3
Br	0.3	0.3	0.1	0.5	0.1	0.2
Rb	50	30	50	100	50	100
Sr	50	30	100	300	30	50
Y	3	3	5	10	3	5
Zr	10	10	50	50	10	10
Nb	1	1	3	3	2	3
Mo	0.2	1	0.5	2	<0.2	0.2
Ru	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Rh	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pd	<0.2	<0.5	<0.2	<0.3	<0.2	<0.2
Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cd	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
In	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05
Sn	0.3	2	0.5	3	<0.2	0.2
Sb	<0.1	0.1	<0.1	0.1	<0.2	<0.1
Te	<0.2	<0.2	<0.2	<0.3	<0.3	<0.2

TABLE I-16. (Continued)

Element	Location (ppm)					
	S24W22[a] (WD6)	S2W22[a] (WD19)	S14W22[a] (WD15)	N3W22 (WD22)	N9W22 (WD25)	140' N of Site Boundary (WD28)
I	<0.05	0.1	<0.1	0.1	<0.1	<0.1
Cs	1	1	0.1	5	1	0.1
Ba	50	50	200	1000	50	100
La	2	2	2	10	2	5
Ce	5	5	10	20	3	20
Pr	0.5	1	1	5	0.2	5
Nd	2	5	0.5	10	1	10
Sm	0.5	0.5	0.5	0.5	<0.3	1
Eu	0.2	0.2	0.2	0.3	<0.2	0.3
Gd	0.3	0.3	0.3	3	<0.3	0.3
Tb	<0.1	0.1	0.1	0.1	<0.1	0.1
Dy	0.3	0.3	0.3	0.5	<0.3	0.3
Ho	<0.1	0.1	0.1	0.1	<0.1	0.1
Er	<0.2	<0.2	0.2	0.2	<0.2	0.2
Tm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Yb	<0.3	<0.3	<0.3	0.3	<0.3	<0.3
Lu	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Hf	<0.3	0.3	<0.3	<0.3	<0.3	<0.3
Ta	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2
W	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Re	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Os	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ir	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pt	<0.5	<0.5	<0.3	<0.3	<0.3	<0.3
Au	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Tl	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bi	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Th	0.1	0.1	<0.1	0.2	0.1	<0.1
U	1	5	2	10	0.1	0.3
^{204}Pb	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1
^{206}Pb	<0.1	1	<0.1	3	0.2	0.2
^{207}Pb	<0.1	0.5	<0.1	0.2	0.1	0.1
^{208}Pb	0.1	1	<0.1	0.3	0.1	0.1

(a)Approximately 150 ft west of the Site boundary at this south grid line.

TABLE I-14. ^{226}RADIUM IN SEDIMENTS OF NATURAL DRAINAGES

Location[a]	^{226}Ra Concentration (pCi/g) Screening[b]	Radiochemistry[c]
	FOURMILE CREEK	
F1A	<4	
F1B		0.4
F2A	<4	
F2B	<4	0.7
F3A	<4	
F3B	<4	
F4A	<4	
F4B	<4	
F5A	<4	
	SIXMILE CREEK	
S1A	<4	0.4
S1B	<4	
S2A	<4	0.8
S3A	<4	
S3B	<4	
S4	<4	
S5	<5	
	TWELVEMILE CREEK	
T1A	<4	
T1B	<4	
T2	<4	
T3B	<4	
T4B	<4	
T5	<4	

(a) See Figure I-2.

(b) Measurement of ^{214}Bi as index of ^{226}Ra (see QA Document NS-NS-122).

(c) Gamma spectroscopy, background concentration average in sediment 0.5 pCi/g (±0.1). Determined from samples T10, T11, T12, taken from a branch of Twelvemile Creek.

Excavated Area

Excerpt from Post-Remedial Action Report for the Niagara Falls Storage Site Vicinity Properties 1983 and 1984

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DOE/OR/20722-84

Formerly Utilized Sites Remedial Action Program (FUSRAP)
Contract No. DE-ACO5-810R20722

POST-REMEDIAL ACTION REPORT FOR THE NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES - 1983 AND 1984

Lewiston, New York

December 1986

Bechtel National, Inc.

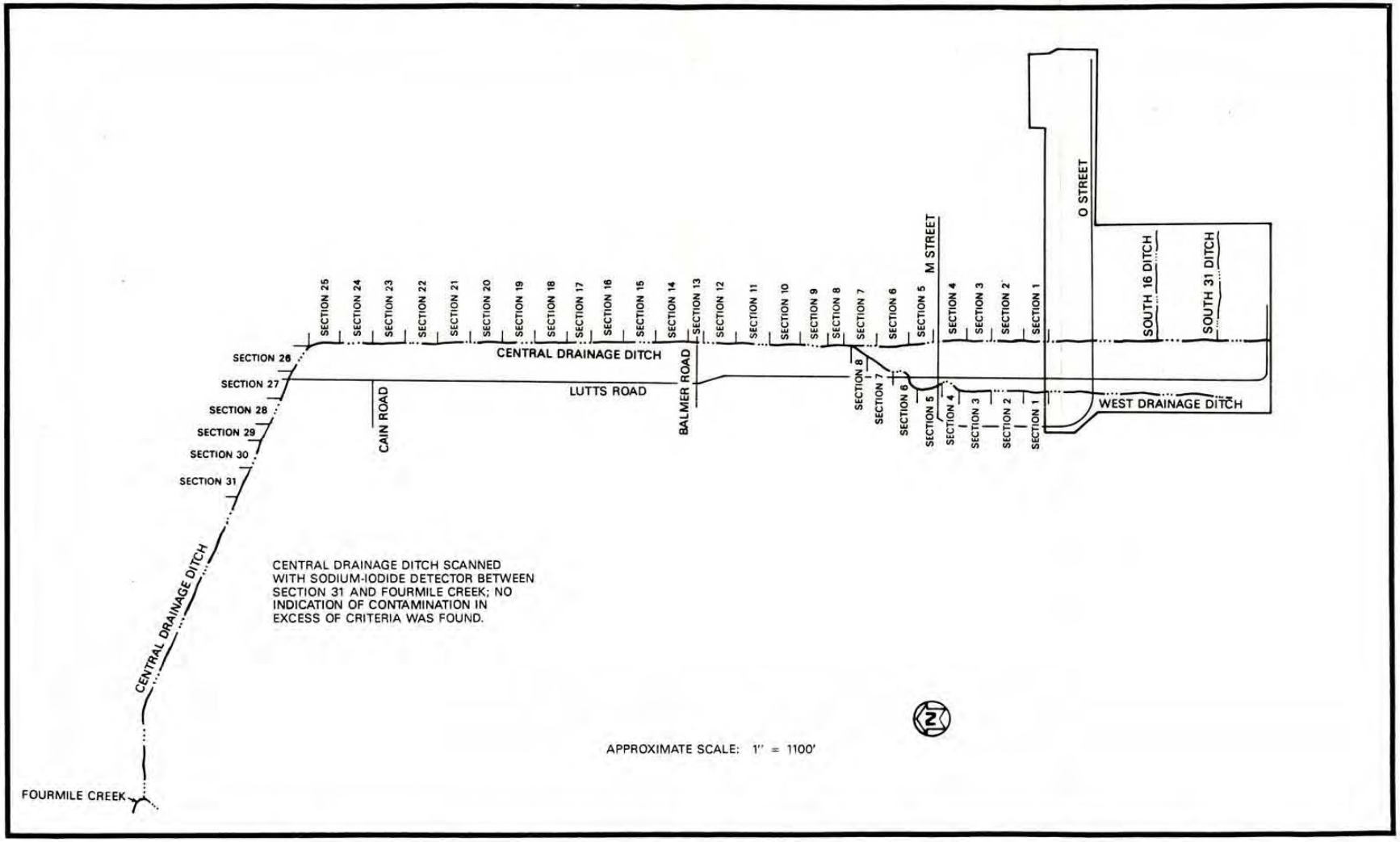


FIGURE 35 LOCATION AND REFERENCE DRAWING FOR THE WEST AND CENTRAL DRAINAGE DITCH EXCAVATIONS

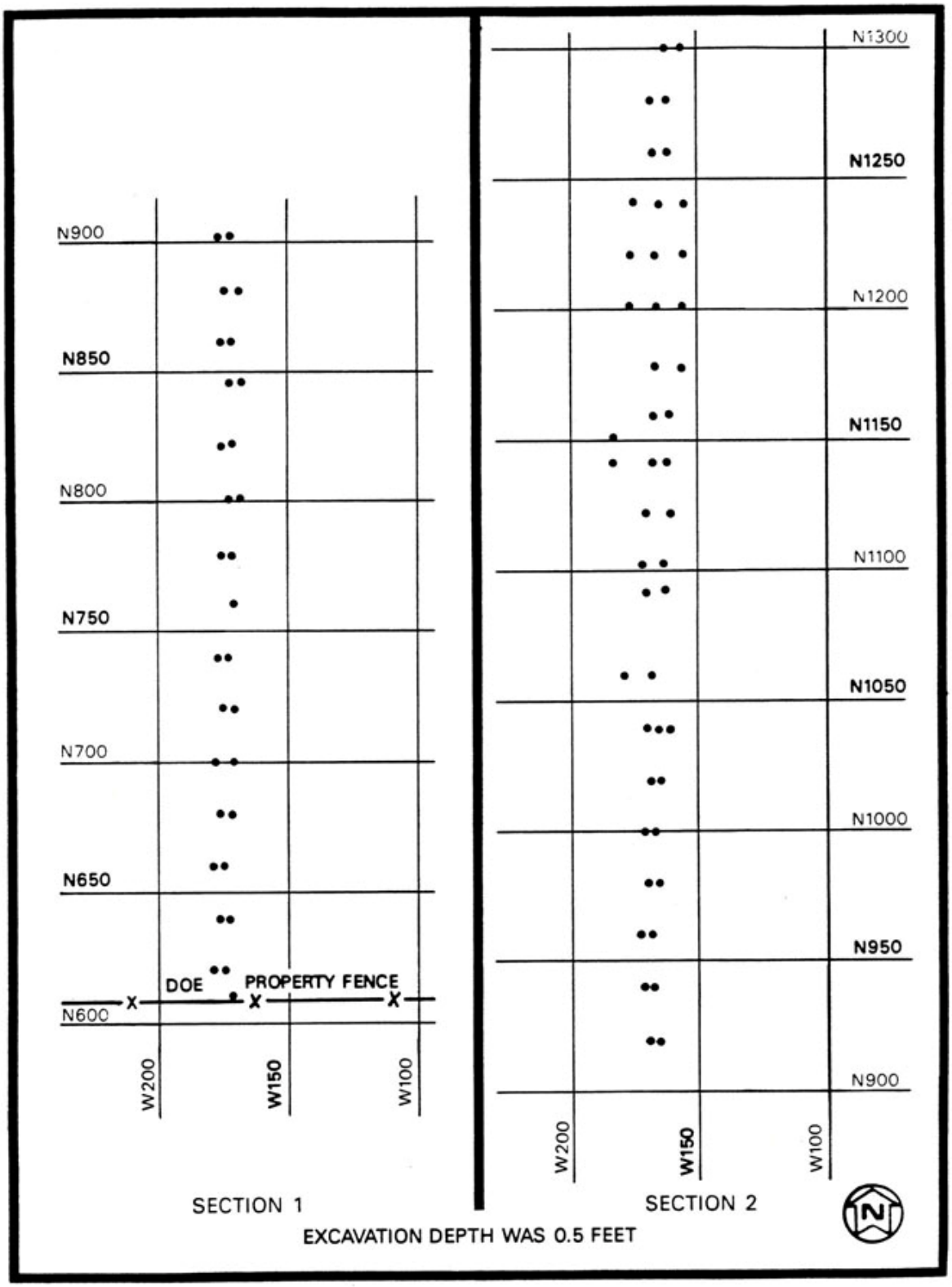


FIGURE 36 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE WEST DITCH - SECTIONS 1 AND 2

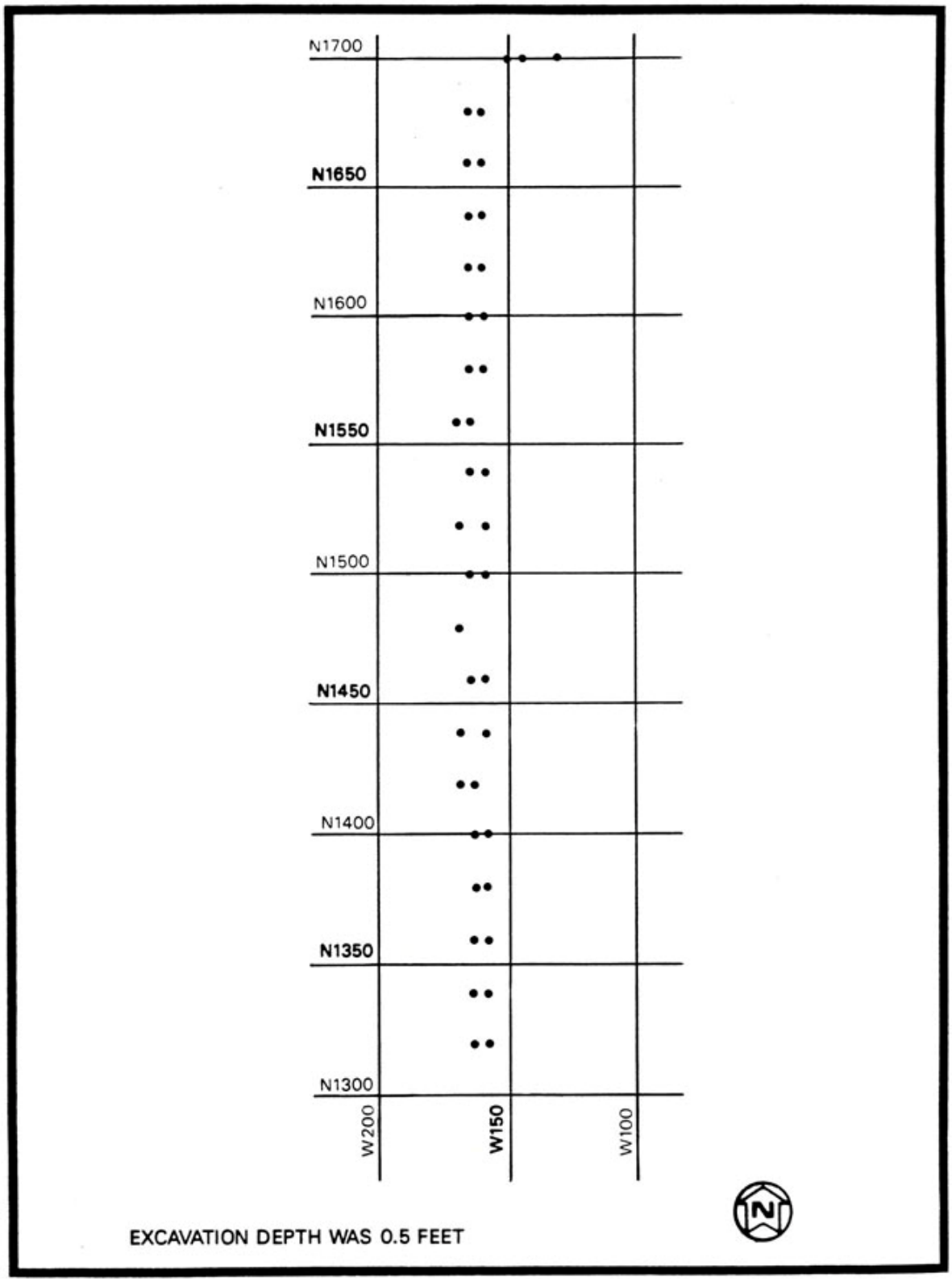


FIGURE 37 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE WEST DITCH - SECTION 3

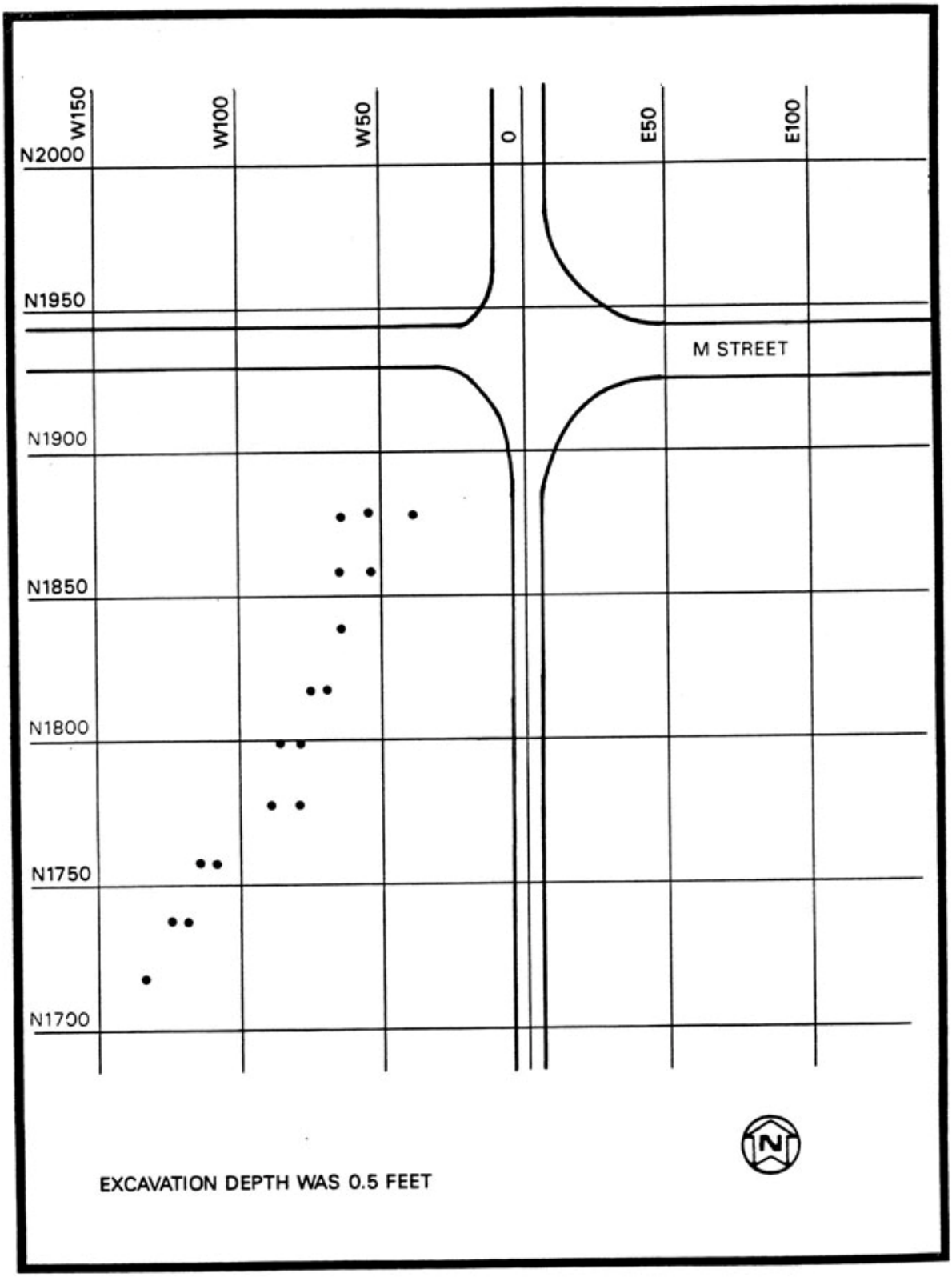


FIGURE 38 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE WEST DITCH - SECTION 4

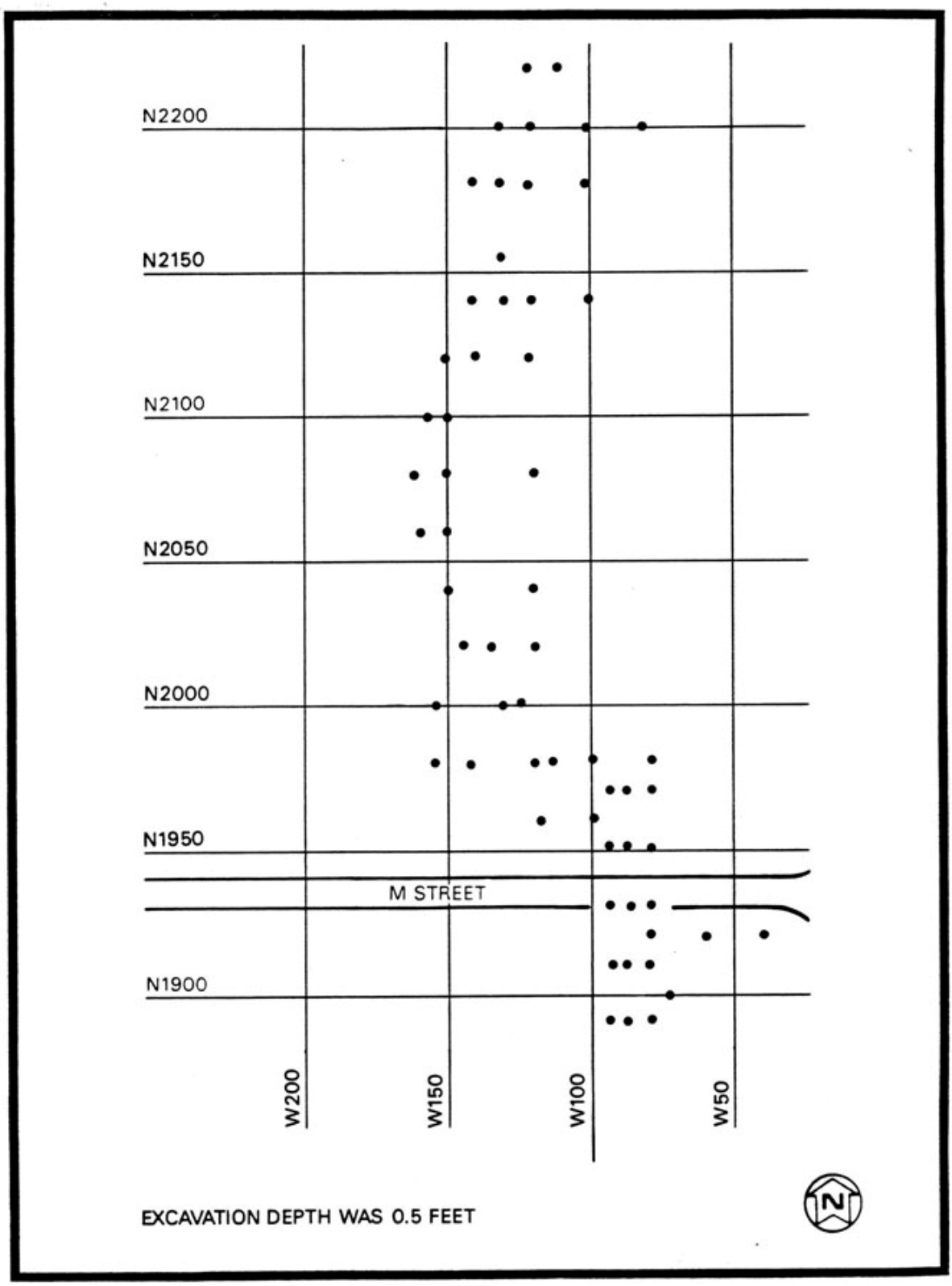


FIGURE 39 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE WEST DITCH - SECTION 5

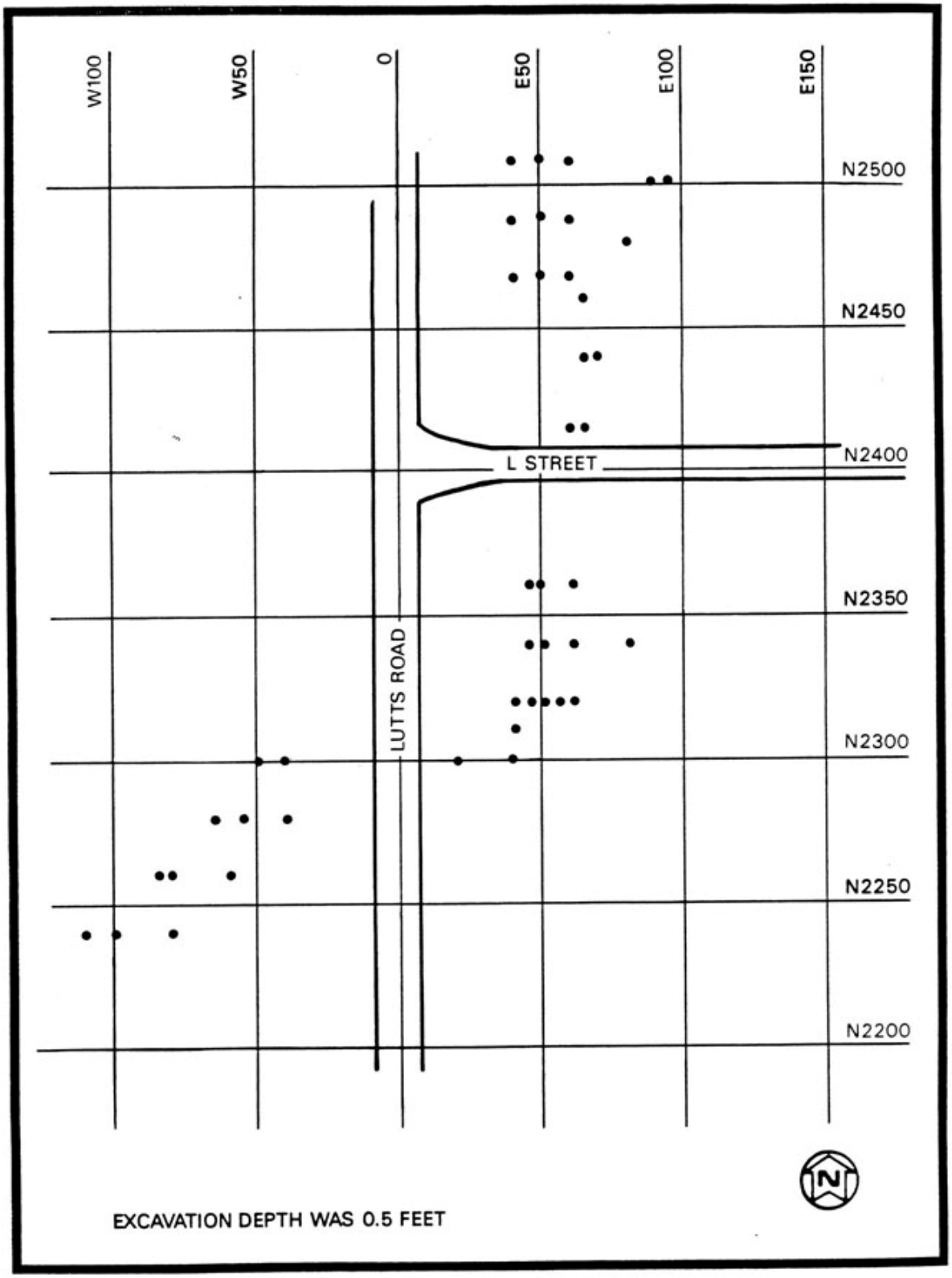


FIGURE 40 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE WEST DITCH - SECTION 6

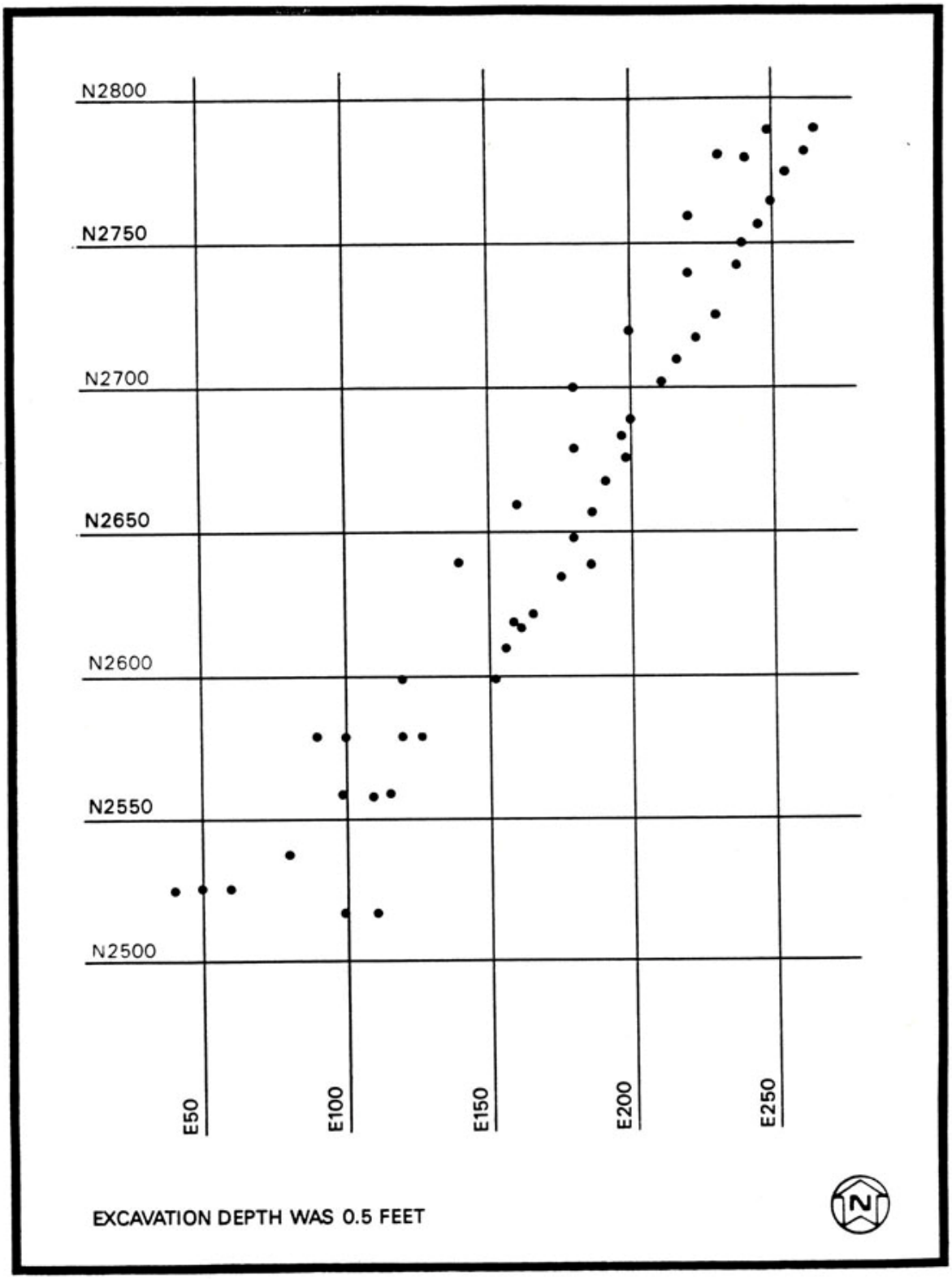


FIGURE 41 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE WEST DITCH - SECTION 7

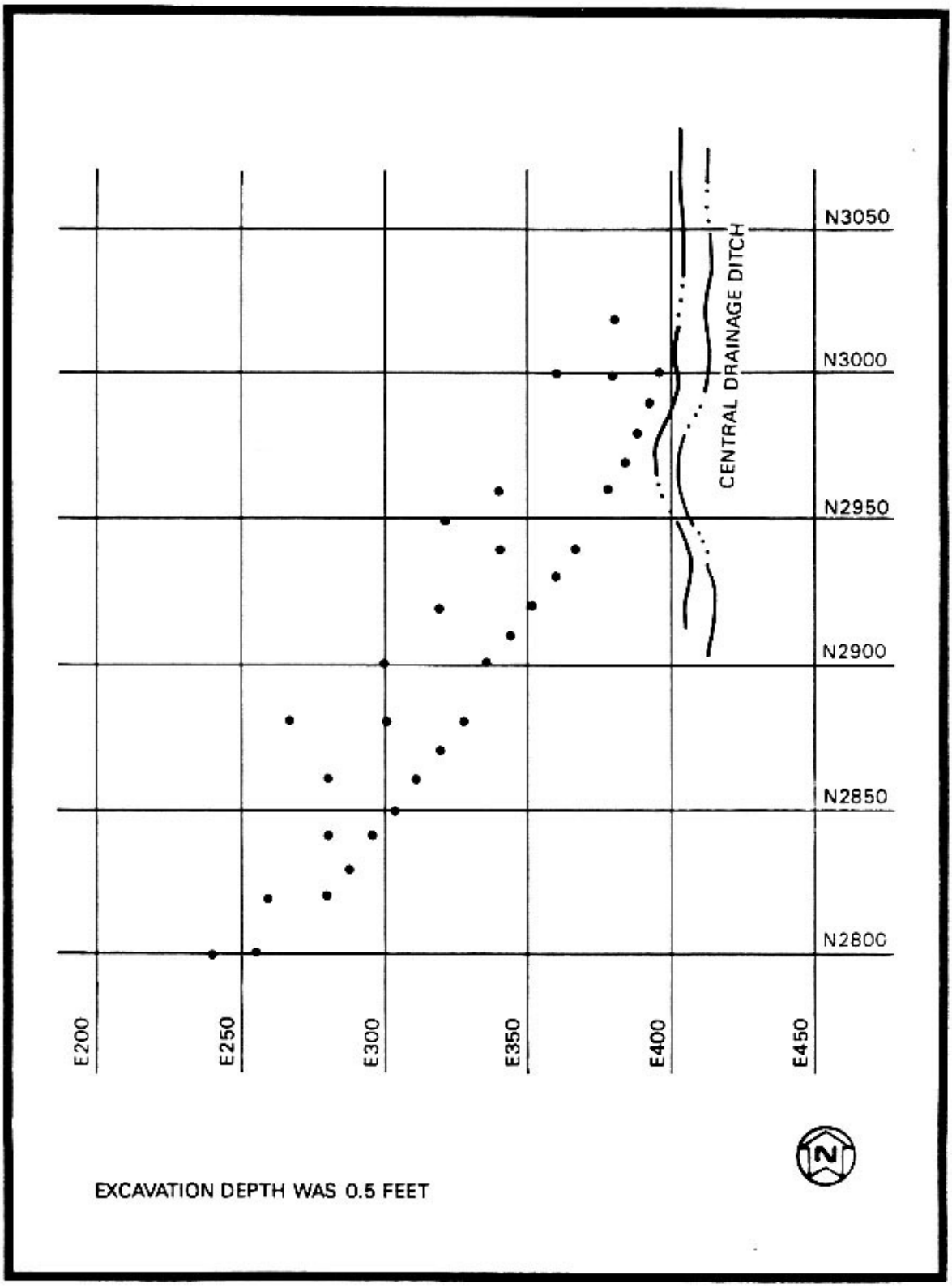


FIGURE 42 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE WEST DITCH - SECTION 8

TABLE 12

POST-REMEDIAL ACTION SAMPLING RESULTS

FOR THE WEST DRAINAGE DITCH

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E0020	N2300	A	3.6 ± 0.3	0.7 ± 0.3
E0040	N2300	A	1.8 ± 0.2	1.4 ± 0.2
E0040	N2310	A	1.3 ± 0.2	1.0 ± 0.2
E0040	N2320	A	0.9 ± 0.1	0.7 ± 0.1
E0040	N2468	1.4 ± 0.5	0.6 ± 0.1	0.6 ± 0.1
E0040	N2488	0.2 ± 0.2	0.7 ± 0.1	0.7 ± 0.1
E0040	N2508	0.1 ± 0.1	0.8 ± 0.1	0.8 ± 0.1
E0040	N2528	0.3 ± 0.2	2.0 ± 0.1	0.8 ± 0.1
E0045	N2320	A	0.9 ± 0.1	1.2 ± 0.3
E0045	N2340	A	0.8 ± 0.1	1.3 ± 0.2
E0045	N2360	A	3.6 ± 0.2	1.0 ± 0.3
E0050	N2320	A	1.0 ± 0.2	0.8 ± 0.2
E0050	N2340	A	1.1 ± 0.2	0.9 ± 0.2
E0050	N2360	A	1.1 ± 0.2	0.7 ± 0.2
E0050	N2468	0.1 ± 0.1	0.6 ± 0.1	0.6 ± 0.1
E0050	N2488	0.3 ± 0.2	0.8 ± 0.1	1.0 ± 0.1
E0050	N2508	0.5 ± 0.2	0.8 ± 0.1	1.0 ± 0.1
E0050	N2528	0.4 ± 0.2	0.9 ± 0.1	1.3 ± 0.1
E0055	N2320	A	1.6 ± 0.2	1.0 ± 0.2
E0060	N2320	A	1.2 ± 0.1	0.8 ± 0.2
E0060	N2340	A	0.8 ± 0.1	0.8 ± 0.2
E0060	N2360	A	0.8 ± 0.1	0.7 ± 0.2
E0060	N2420	A	1.6 ± 0.2	1.2 ± 0.2
E0060	N2468	A	4.7 ± 0.1	0.8 ± 0.1
E0060	N2488	0.1 ± 0.2	0.9 ± 0.1	0.8 ± 0.1
E0060	N2508	0.3 ± 0.1	0.7 ± 0.1	0.7 ± 0.1
E0060	N2528	0.3 ± 0.2	1.1 ± 0.1	1.1 ± 0.1
E0065	N2420	A	0.9 ± 0.1	0.8 ± 0.2
E0065	N2440	A	1.8 ± 0.2	0.6 ± 0.2
E0065	N2460	A	2.8 ± 0.2	1.4 ± 0.3
E0070	N2440	A	1.3 ± 0.2	0.8 ± 0.2
E0080	N2340	A	1.5 ± 0.2	1.1 ± 0.2
E0080	N2480	7.2 ± 2.3	1.2 ± 0.2	1.4 ± 0.2
E0080	N2540	A	0.8 ± 0.1	0.7 ± 0.2
E0090	N2500	A	1.0 ± 0.1	0.8 ± 0.2
E0090	N2580	A	1.4 ± 0.2	1.1 ± 0.2
E0095	N2500	A	1.7 ± 0.2	0.9 ± 0.2
E0100	N2520	A	0.8 ± 0.1	0.4 ± 0.2
E0100	N2560	A	0.8 ± 0.1	0.6 ± 0.2
E0100	N2580	A	1.0 ± 0.1	0.6 ± 0.2
E0110	N2520	A	1.4 ± 0.2	1.1 ± 0.2
E0110	N2560	A	0.8 ± 0.1	1.1 ± 0.3
E0115	N2560	A	1.9 ± 0.2	0.9 ± 0.2

TABLE 12 (continued)

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E0120	N2580	A	1.0 ± 0.1	0.9 ± 0.2
E0120	N2600	A	1.1 ± 0.1	0.9 ± 0.2
E0126	N2580	A	1.0 ± 0.1	0.6 ± 0.2
E0140	N2640	A	1.0 ± 0.1	1.2 ± 0.2
E0152	N2600	4.5 ± 3.2	1.9 ± 0.2	0.5 ± 0.2
E0156	N2610	A	0.9 ± 0.1	1.2 ± 0.3
E0160	N2620	A	0.8 ± 0.1	1.0 ± 0.2
E0160	N2660	A	0.9 ± 0.1	1.1 ± 0.3
E0161	N2618	A	1.1 ± 0.1	1.0 ± 0.2
E0164	N2623	A	1.0 ± 0.1	1.3 ± 0.2
E0176	N2636	A	0.9 ± 0.2	1.2 ± 0.2
E0178	N2642	A	0.9 ± 0.1	0.8 ± 0.3
E0180	N2648	A	0.8 ± 0.1	0.9 ± 0.2
E0180	N2680	4.9 ± 2.0	0.9 ± 0.1	1.1 ± 0.2
E0180	N2700	A	1.1 ± 0.1	0.8 ± 0.2
E0188	N2657	A	0.7 ± 0.1	A
E0191	N2668	A	0.9 ± 0.2	1.0 ± 0.2
E0197	N2685	A	1.0 ± 0.2	0.7 ± 0.2
E0198	N2675	A	1.1 ± 0.1	0.8 ± 0.2
E0200	N2690	A	2.6 ± 0.2	1.2 ± 0.2
E0200	N2720	A	1.0 ± 0.2	0.8 ± 0.2
E0212	N2702	A	0.8 ± 0.1	0.8±0.2
E0216	N2710	5.4 ± 2.4	1.0 ± 0.1	1.1 ± 0.2
E0220	N2740	A	1.1 ± 0.1	1.1 ± 0.2
E0220	N2760	A	0.8 ± 0.1	0.8 ± 0.2
E0222	N2717	A	0.9 ± 0.2	0.7 ± 0.2
E0230	N2724	2.1 ± 2.2	1.2 ± 0.2	0.9 ± 0.2
E0231	N2781	A	0.9 ± 0.2	0.8 ± 0.2
E0237	N2742	A	1.3 ± 0.1	0.7 ± 0.2
E0239	N2750	0.7 ± 0.4	0.8 ± 0.1	0.6 ± 0.2
E0240	42780	A	1.2 ± 0.2	0.9 ± 0.2
E0240	N2800	A	0.9 ± 0.2	0.8 ± 0.2
E0245	N2757	1.0±0.1	0.8 ± 0.1	0.9 ± 0.2
E0248	N2790	A	0.9 ± 0.1	0.4 ± 0.3
E0250	42765	A	0.9 ± 0.1	1.2 ± 0.2
E0254	N2775	1.4 ± 0.6	1.0 ± 0.1	0.9 ± 0.1
E0256	N2800	A	0.9 ± 0.1	0.9 ± 0.2
E0260	N2820	A	0.8 ± 0.1	1.0 ± 0.2
E0262	N2782	1.4 ± 0.1	0.9 ± 0.1	1.0 ± 0.1
E0262	N2880	A	1.3 ± 0.2	0.5 ± 0.2
E0265	N2790	A	1.2 ± 0.1	0.5 ± 0.1
E0280	N2820	11.9 ± 3.3	1.0 ± 0.1	0.8 ± 0.2
E0280	N2840	A	1.0 ± 0.1	1.4 ± 0.4

TABLE 12 (continued)

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E0280	N2860	A	1.0 ± 0.1	1.0 ± 0.2
E0288	N2830	A	0.9 ± 0.1	1.0 ± 0.2
E0296	N2840	A	1.0 ± 0.1	0.9 ± 0.2
E0300	N2880	A	1.0 ± 0.1	0.8 ± 0.2
E0300	N2900	A	0.9 ± 0.1	1.1 ± 0.2
E0304	N2850	A	1.3 ± 0.2	0.9 ± 0.2
E0312	N2860	A	1.4 ± 0.2	0.8 ± 0.2
E0320	N2870	A	1.1 ± 0.1	0.8 ± 0.2
E0320	N2920	A	1.2 ± 0.1	1.1 ± 0.3
E0322	N2950	A	1.1 ± 0.1	1.0 ± 0.2
E0328	N2880	A	0.9 ± 0.1	1.0 ± 0.2
E0336	N2900	A	1.1 ± 0.1	0.8 ± 0.3
E0340	N2940	A	6.8 ± 0.3	0.6 ± 0.2
E0340	N2960	A	0.9 ± 0.1	0.7 ± 0.2
E0344	N2910	A	1.4 ± 0.2	1.3 ± 0.3
E0352	N2920	A	1.2 ± 0.1	0.8 ± 0.3
E0360	N2930	A	1.1 ± 0.1	1.0 ± 0.2
E0360	N3000	A	1.2 ± 0.1	0.9 ± 0.2
E0366	N2940	2.8 ± 2.0	1.1 ± 0.1	0.8 ± 0.2
E0378	N2960	A	1.3 ± 0.1	1.2 ± 0.3
E0380	N3000	5.9 ± 2.5	1.4 ± 0.2	1.0 ± 0.3
E0380	N3020	A	1.1 ± 0.1	0.6 ± 0.2
E0384	N2970	A	0.9 ± 0.1	0.9 ± 0.2
E0388	N2980	7.6 ± 2.5	0.9 ± 0.1	0.7 ± 0.2
E0392	N2990	A	2.6 ± 0.2	0.8 ± 0.3
E0396	N3000	A	0.8 ± 0.1	1.2 ± 0.2
W0040	N1880	A	2.8 ± 0.2	0.8 ± 0.2
W0040	N1920	A	1.3 ± 0.2	0.8 ± 0.2
W0040	N2280	A	1.5 ± 0.2	0.4 ± 0.2
W0040	N2300	A	1.3 ± 0.1	0.9 ± 0.2
W0050	N2300	A	0.9 ± 0.1	0.5 ± 0.2
W0055	N1860	A	1.0 ± 0.1	0.8 ± 0.2
W0055	N1880	2.0 ± 2.3	1.3 ± 0.1	0.8 ± 0.2
W0055	N2280	A	1.1 ± 0.2	1.0 ± 0.2
W0060	N1920	A	1.4 ± 0.2	0.9 ± 0.2
W0060	N2260	A	1.5 ± 0.2	1.1 ± 0.3
W0065	N1840	A	1.5 ± 0.2	1.0 ± 0.3
W0065	N1860	A	1.9 ± 0.2	0.6 ± 0.3
W0065	N1880	A	1.0 ± 0.1	0.9 ± 0.2
W0065	N2280	A	1.4 ± 0.2	0.8 ± 0.2
W0070	N1820	2.2 ± 2.4	1.0 ± 0.1	0.9 ± 0.2
W0070	N1900	A	1.4 ± 0.2	0.9 ± 0.2
W0075	N1820	A	0.9 ± 0.1	1.1 ± 0.2

TABLE 12 (continued)

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W0080	N1780	A	1.2 ± 0.2	1.0 ± 0.2
W0080	N1800	A	1.5 ± 0.2	1.1 ± 0.3
W0080	N1890	A	0.8 ± 0.1	0.9 ± 0.3
W0080	N1910	A	0.8 ± 0.1	0.8 ± 0.2
W0080	N1920	A	2.2 ± 0.3	0.3 ± 0.1
W0080	N1930	A	0.7 ± 0.1	1.0 ± 0.2
W0080	N1950	A	0.7 ± 0.1	0.7 ± 0.2
W0080	N1970	A	0.6 ± 0.2	0.8 ± 0.2
W0080	N1980	A	1.2 ± 0.2	0.6 ± 0.2
W0080	N2200	A	1.0 ± 0.2	0.9 ± 0.3
W0080	N2240	A	1.7 ± 0.2	1.2 ± 0.3
W0080	N2260	A	12.0 ± 0.5	0.9 ± 0.3
W0085	N1800	A	2.4 ± 0.2	0.9 ± 0.3
W0085	N2260	A	5.0 ± 0.3	1.5 ± 0.2
W0087	N1890	A	0.8 ± 0.1	1.1 ± 0.2
W0087	N1910	A	1.0 ± 0.1	1.9 ± 0.3
W0087	N1930	1.3 ± 2.7	0.6 ± 0.1	0.7 ± 0.2
W0087	N1950	A	0.7 ± 0.1	0.9 ± 0.2
W0087	N1970	A	0.8 ± 0.1	A
W0090	N1780	A	0.9 ± 0.1	0.9 ± 0.2
W0094	N1890	4.4 ± 2.8	0.7 ± 0.2	0.6 ± 0.2
W0094	N1910	A	1.1 ± 0.2	0.7 ± 0.2
W0094	N1930	A	0.8 ± 0.1	0.6 ± 0.2
W0094	N1950	A	0.7 ± 0.1	0.5 ± 0.2
W0094	N1970	A	0.9 ± 0.1	0.9 ± 0.2
W0100	N1960	A	0.9 ± 0.2	1.1 ± 0.3
W0100	N1980	A	1.5 ± 0.2	0.9 ± 0.2
W0100	N2140	2.6 ± 2.4	1.2 ± 0.2	0.8 ± 0.2
W0100	N2180	A	1.4 ± 0.2	1.5 ± 0.2
W0100	N2200	A	2.6 ± 0.2	0.8 ± 0.2
W0100	N2240	A	1.0 ± 0.2	0.7 ± 0.2
w0110	N1760	A	1.2 ± 0.2	1.0 ± 0.3
W0110	N2220	A	1.3 ± 0.2	0.6 ± 0.2
W0110	N2240	A	1.0 ± 0.1	0.7 ± 0.2
W0115	N1760	A	0.9 ± 0.1	0.9 ± 0.3
W0115	N1980	A	1.6 ± 0.2	0.7 ± 0.2
W0120	N1740	A	1.3 ± 0.2	0.7 ± 0.2
W0120	N1960	A	1.3 ± 0.2	1.1 ± 0.2
W0120	N1980	A	1.6 ± 0.2	1.2 ± 0.3
W0120	N2020	A	2.0 ± 0.2	1.1 ± 0.2
W0120	N2040	A	3.7 ± 0.3	1.0 ± 0.2
W0120	N2080	A	1.6 ± 0.2	0.7 ± 0.2
W0120	N2120	A	1.5 ± 0.1	0.5 ± 0.2

TABLE 12 (continued)

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W0120	N2140	A	8.6 ± 0.4	0.8 ± 0.3
W0120	N2180	A	0.9 ± 0.2	1.0 ± 0.2
W0120	N2200	A	1.1 ± 0.1	1.3 ± 0.2
W0120	N2220	A	1.8 ± 0.2	1.4 ± 0.3
W0125	N1740	A	1.2 ± 0.2	0.6 ± 0.2
W0125	N2000	A	14.4 ± 0.5	0.6 ± 0.3
W0130	N1700	3.8 ± 3.3	2.0 ± 0.2	1.0 ± 0.3
W0130	N2000	A	2.2 ± 0.2	1.2 ± 0.2
W0130	N2140	A	1.5 ± 0.2	0.7 ± 0.2
W0130	N2160	A	1.4 ± 0.1	1.1 ± 0.2
W0130	N2180	A	1.2 ± 0.1	0.6 ± 0.2
W0130	N2200	A	1.1 ± 0.2	1.0 ± 0.3
W0135	N1720	A	1.3 ± 0.2	1.4 ± 0.2
W0135	N2020	A	1.0 ± 0.1	0.5 ± 0.2
W0140	N1980	A	1.2 ± 0.2	0.8 ± 0.3
W0140	N2120	A	1.8 ± 0.2	0.8 ± 0.2
W0140	N2140	A	3.4 ± 0.3	0.9 ± 0.4
W0140	N2180	5.5 ± 2.0	1.4 ± 0.2	0.6 ± 0.2
W0145	N1700	A	1.4 ± 0.1	1.4 ± 0.3
W0145	N2020	A	0.9 ± 0.2	1.0 ± 0.2
W0150	N1700	3.1 ± 2.3	1.4 ± 0.1	0.7 ± 0.2
W0150	N2040	A	1.5 ± 0.2	1.5 ± 0.2
W0150	N2060	A	12.3 ± 0.7	A
W0150	N2080	A	1.9 ± 0.3	A
W0150	N2100	A	1.6 ± 0.2	0.6 ± 0.3
W0150	N2120	A	1.0 ± 0.1	1.0 ± 0.2
W0155	N1980	A	1.2 ± 0.1	0.9 ± 0.2
W0155	N2000	A	1.0 ± 0.1	0.8 ± 0.2
W0155	N2100	A	1.1 ± 0.2	1.3 ± 0.3
W0158	N1200	A	0.8 ± 0.1	0.7 ± 0.2
W0158	N1220	0.1 ± 0.1	0.7 ± 0.1	0.9 ± 0.1
W0158	N1240	A	0.5 ± 0.1	0.8 ± 0.2
W0160	N1040	A	1.7 ± 0.2	0.9 ± 0.2
W0160	N1300	A	0.9 ± 0.1	0.7 ± 0.2
W0160	N1320	A	1.1 ± 0.2	0.9 ± 0.3
W0160	N1340	A	1.1 ± 0.2	0.8 ± 0.2
W0160	N1360	A	1.1 ± 0.1	1.6 ± 0.2
W0160	N1380	A	1.1 ± 0.1	1.1 ± 0.3
W0160	N1400	A	0.9 ± 0.1	0.9 ± 0.2
W0160	N1440	8.4 ± 2.5	0.1 ± 0.1	0.8 ± 0.2
W0160	N1460	4.5 ± 2.6	1.3 ± 0.2	1.4 ± 0.4
W0160	N1500	A	1.3 ± 0.1	0.9 ± 0.2
W0160	N1520	A	1.1 ± 0.1	1.0 ± 0.2

TABLE 12 (continued)

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W0160	NI540	A	0.9 ± 0.1	1.2 ± 0.2
W0160	N1580	A	1.3 ± 0.1	1.0 ± 0.2
W0160	N1600	A	A	0.9 ± 0.6
W0160	N1620	A	1.4 ± 0.1	1.4 ± 0.2
W0160	N1640	A	0.9 ± 0.1	0.9 ± 0.2
W0160	N1660	A	0.1 ± 0.2	1.4 ± 0.3
W0160	N1680	A	1.0 ± 0.1	0.9 ± 0.2
W0160	N2060	A	5.9 ± 0.6	A
W0160	N2080	7.5 ± 2.9	1.2 ± 0.2	1.0 ± 0.2
W0164	N1090	A	0.9 ± 0.1	1.4±0.2
W0164	N1120	3.3 ± 0.9	1.6 ± 0.2	1.0 ± 0.3
W0164	N1180	A	1.0 ± 0.1	1.0 ± 0.2
W0165	N1100	2.5 ± 2.0	1.3 ± 0.2	0.7 ± 0.2
W0165	N1140	A	1.5 ± 0.1	1.0 ± 0.2
W0165	N1160	A	1.3 ± 0.1	1.3 ± 0.1
W0165	N1260	A	0.8 ± 0.1	1.4 ± 0.2
W0165	N1280	A	1.1 ± 0.1	0.6 ± 0.2
W0165	N1300	A	1.1 ± 0.1	1.3 ± 0.2
W0165	N1320	A	1.2 ± 0.2	1.0 ± 0.3
W0165	N1340	A	1.2 ± 0.1	1.1 ± 0.2
W0165	N1360	A	1.1 ± 0.1	0.9 ± 0.2
W0165	N1380	A	1.1 ± 0.1	0.7±0.2
W0165	N1400	A	1.0 ± 0.1	1.2 ± 0.3
W0165	N1420	A	1.0 ± 0.2	1.4 ± 0.2
W0165	N1460	A	0.9 ± 0.1	0.9 ± 0.2
W0165	N1500	A	0.9 ± 0.1	1.0 ± 0.2
W0165	N1540	A	1.0 ± 0.1	1.4 ± 0.2
W0165	N1560	A	1.4 ± 0.1	0.9 ± 0.2
W0165	N1580	2.9 ± 2.2	1.4 ± 0.2	1.2 ± 0.2
W0165	N1600	A	1.3 ± 0.1	1.3 ± 0.2
W0165	N1620	6.0 ± 3.4	1.3 ± 0.2	0.9 ± 0.3
W0165	N1640	A	3.0 ± 0.2	1.1 ± 0.3
W0165	N1660	3.1 ± 2.2	1.7 ± 0.2	1.3 ± 0.2
W0165	N1680	A	1.9 ± 0.2	1.0 ± 0.2
W0166	N1020	A	1.0 ± 0.1	1.1 ± 0.2
W0167	N0920	A	0.7 ± 0.1	0.6 ± 0.2
W0167	N0980	A	14.3 ± 0.5	0.8 ± 0.3
W0168	N0840	3.5 ± 1.6	1.8 ± 0.1	0.9 ± 0.2
W0168	N0880	A	0.9 ± 0.2	1.6 ± 0.2
W0168	N1020	A	1.2 ± 0.2	1.1 ± 0.2
W0168	N1040	A	1.1 ± 0.1	0.9 ± 0.2
W0168	N1060	A	1.0±0.1	0.7 ± 0.2
W0168	N1200	0.7 ± 0.4	0.7 ± 0.1	0.7 ± 0.3

TABLE 12 (continued)

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W0168	N1220	0.4 ± 0.2	0.9 ± 0.1	1.1 ± 0.1
W0168	N1240	A	1.0 ± 0.1	0.9 ± 0.2
W0169	N0800	9.2 ± 3.5	1.1 ± 0.2	0.9 ± 0.2
W0169	N0940	A	0.9 ± 0.1	1.0 ± 0.1
W0169	N0960	A	0.8 ± 0.1	0.6 ± 0.2
W0169	N0980	A	1.3±0.1	0.8 ± 0.2
W0169	N1000	3.6 ± 1.8	0.9 ± 0.1	0.7 ± 0.3
W0170	N0760	2.1 ± 2.3	0.9 ± 0.2	1.2 ± 0.3
W0170	N0840	A	1.4 ± 0.2	1.3 ± 0.3
W0170	N0860	A	0.9 ± 0.1	1.5 ± 0.3
W0170	N0880	A	1.0 ± 0.1	1.2 ± 0.3
W0170	N0900	A	1.2 ± 0.1	1.2 ± 0.2
W0170	N0920	A	0.7 ± 0.1	76.0 ± 0.2
W0170	N1040	A	0.9 ± 0.1	0.9 ± 0.2
W0170	N1140	A	2.9 ± 0.2	0.8 ± 0.2
W0170	N1160	A	14.0 ± 0.4	2.2 ± 0.3
W0170	N1260	A	0.7 ± 0.1	1.5 ± 0.3
W0170	N1280	A	1.0 ± 0.1	1.0 ± 0.2
W0170	N1420	A	1.0 ± 0.2	0.8 ± 0.3
W0170	N1440	A	1.3 ± 0.1	0.9 ± 0.2
W0170	N1480	A	0.8 ± 0.1	0.4 ± 0.2
W0170	N1520	A	1.2 ± 0.2	1.1 ± 0.2
W0170	N1560	A	1.3 ± 0.2	1.2 ± 0.3
W0171	N0720	A	1.4 ± 2.0	0.8 ± 0.2
W0171	N0820	A	0.9 ± 0.1	1.2 ± 0.3
W0171	N0940	A	0.8 ± 0.1	1.0 ± 0.2
W0171	N0960	A	0.8 ± 0.1	0.7 ± 0.2
W0171	N1000	A	1.2 ± 0.2	0.9 ± 0.2
W0171	N1120	A	1.3 ± 0.2	1.1 ± 0.3
W0172	N0780	3.3 ± 2.2	1.3 ± 0.2	1.1 ± 0.2
W0172	N0800	4.7 ± 2.6	1.1 ± 0.1	1.0 ± 0.3
W0172	N0900	A	0.9 ± 0.1	1.3 ± 0.3
W0172	N1180	A	1.3 ± 0.1	1.1 ± 0.2
W0173	N0610	A	1.0 ± 0.1	1.0 ± 0.2
W0173	N0640	A	1.2 ± 0.1	1.2 ± 0.2
W0173	N0680	A	1.0 ± 0.1	1.2 ± 0.2
W0173	N0720	A	0.9 ± 0.1	0.8 ± 0.2
W0173	N0820	A	0.9 ± 0.1	1.2 ± 0.2
W0173	N0860	A	0.9 ± 0.2	0.9 ± 0.2
W0173	N1090	A	1.4 ± 0.2	1.0 ± 0.2
W0173	N1100	A	1.1 ± 0.1	1.3 ± 0.2
W0174	N0700	A	0.9 ± 0.1	1.1 ± 0.3
W0174	N0740	A	0.9 ± 0.1	1.2 ± 0.2

TABLE 12 (continued)

Grid Coordinates		Concentrations (pCi/g ±/- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W0174	N0780	9.0 ± 3.4	0.9 ± 0.1	1.1 ± 0.2
W0175	N0640	1.1 ± 0.5	0.7 0.1	1.3 ± 0.3
W0175	N0660	A	0.8 ± 0.1	0.7±0.2
W0175	N0680	A	1.1 ± 0.2	0.8 ± 0.2
W0175	N0740	A	0.8 ± 0.1	0.9 ± 0.2
W0176	N0620	A	1.0 ± 0.1	0.8 ± 0.3
W0176	N0700	A	0.9 ± 0.1	0.9 ± 0.2
W0178	N0620	A	0.9 ± 0.1	0.9 ± 0.2
W0178	N0660	A	0.9 ± 0.1	0.8 ± 0.2
W0178	N1200	A	0.7±0.1	0.8 ± 0.2
W0178	N1220	0.1 ± 0.2	0.8 ± 0.1	1.0 ± 0.1
W0178	N1240	0.7 ± 0.1	0.8 ± 0.1	0.8 ± 0.1
W0180	N1060	A	0.9 ± 0.1	0.7 ± 0.2
W0187	N1140	A	1.1 ± 0.1	0.7 ± 0.2
W0187	N1150	A	1.0 ± 0.1	1.3 ± 0.2

'A' denotes less than detectable activity

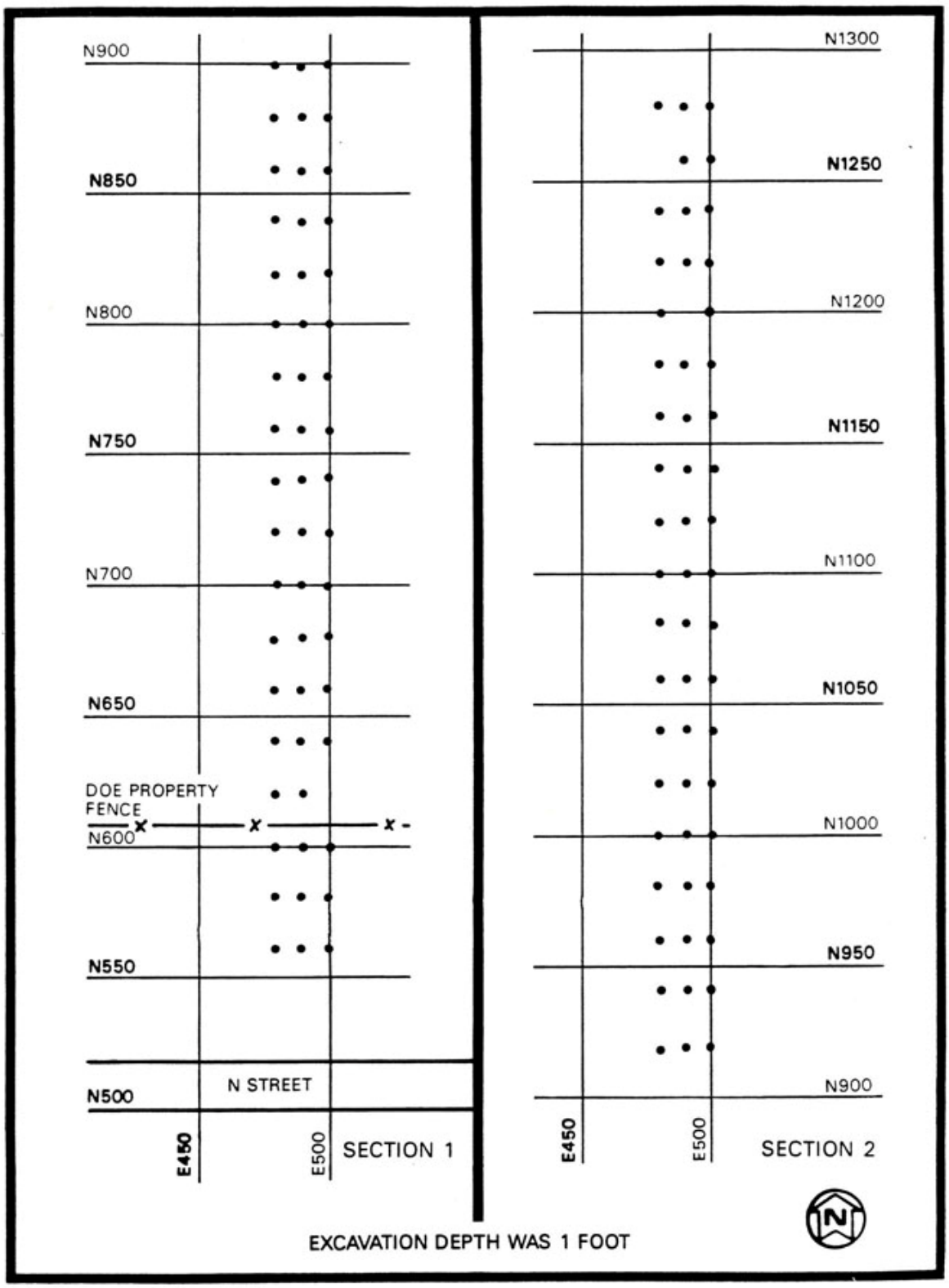


FIGURE 43 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 1 AND 2

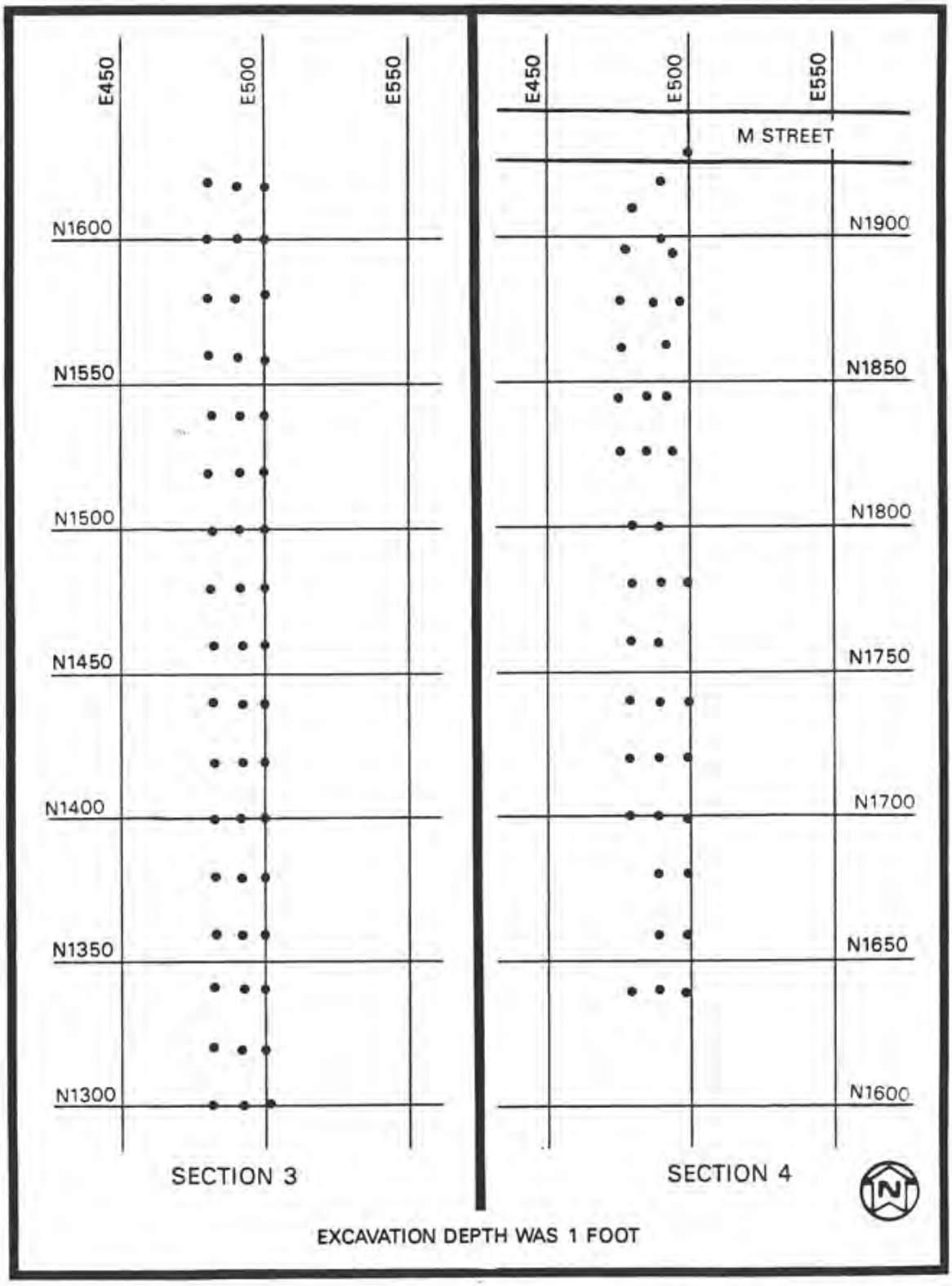


FIGURE 44 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 3 AND 4

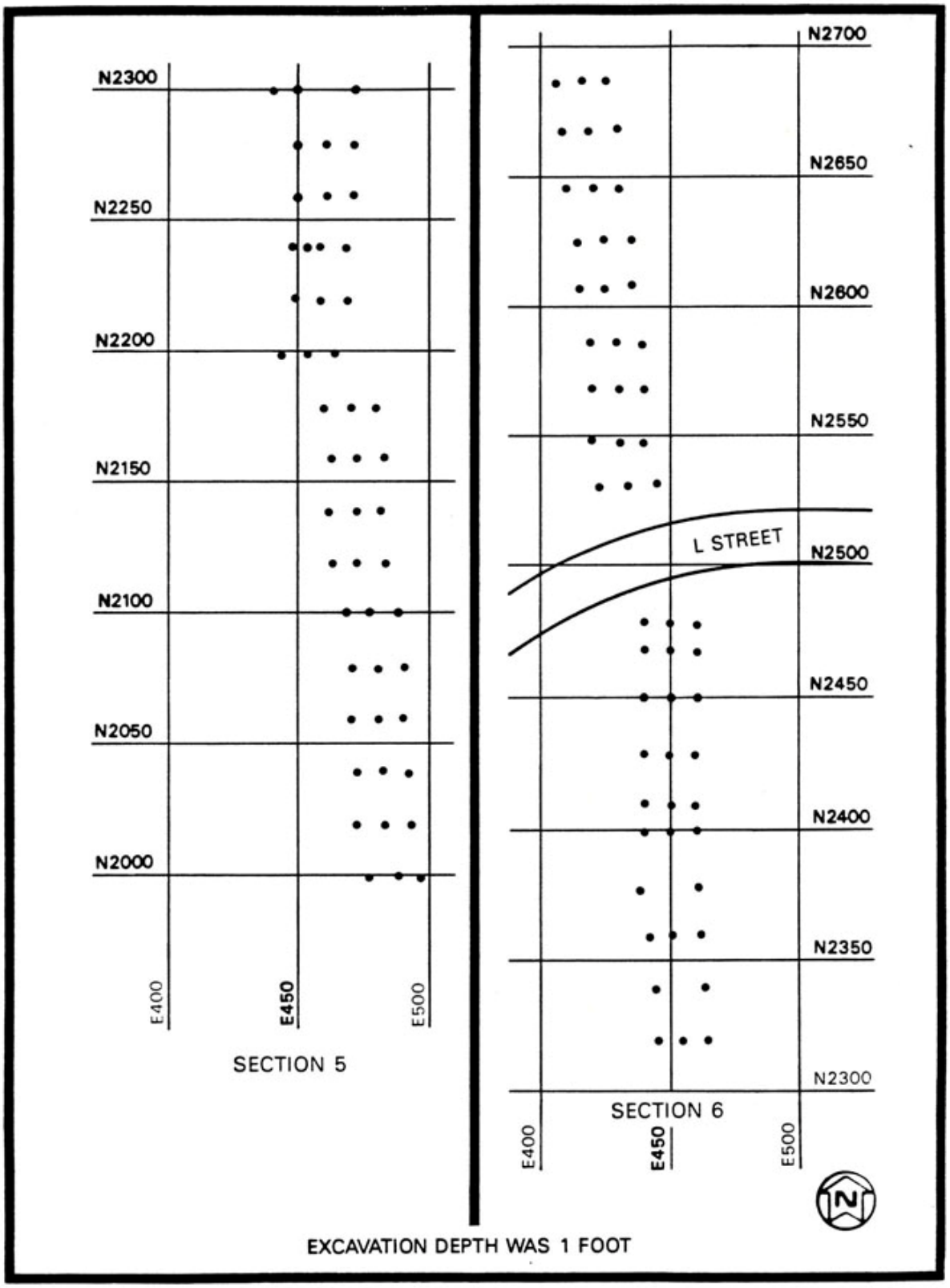


FIGURE 45 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 5 AND 6

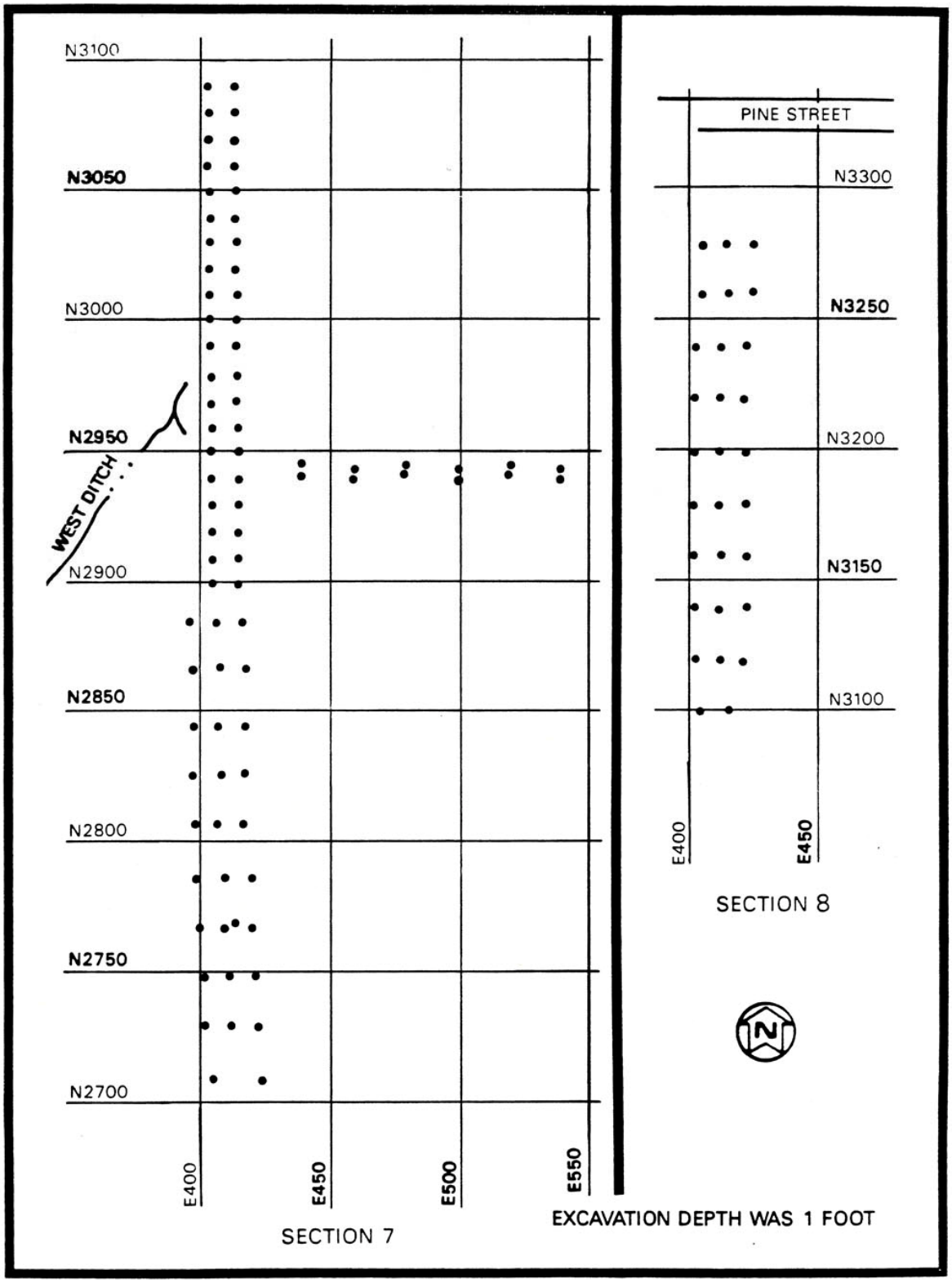
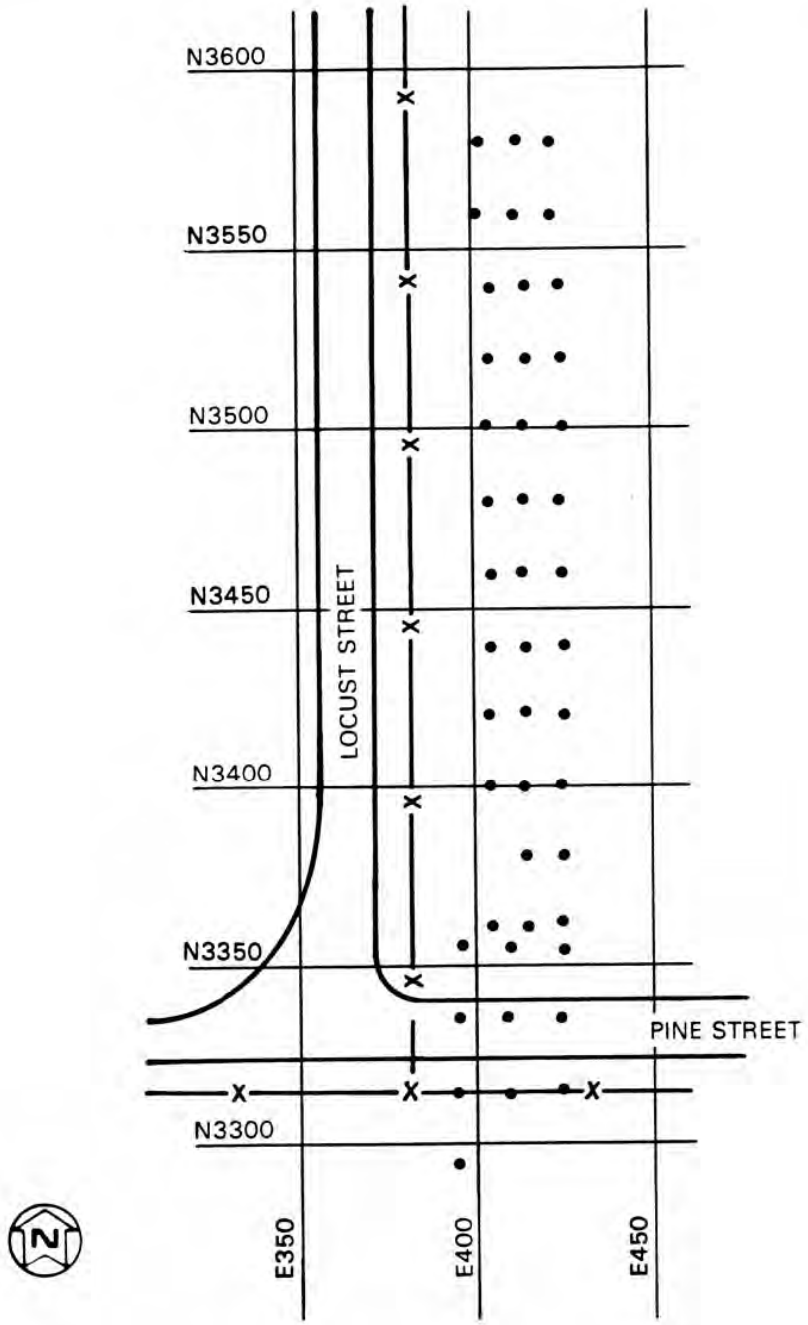


FIGURE 46 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 7 AND 8



EXCAVATION DEPTH WAS 1 FOOT

FIGURE 47 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 9

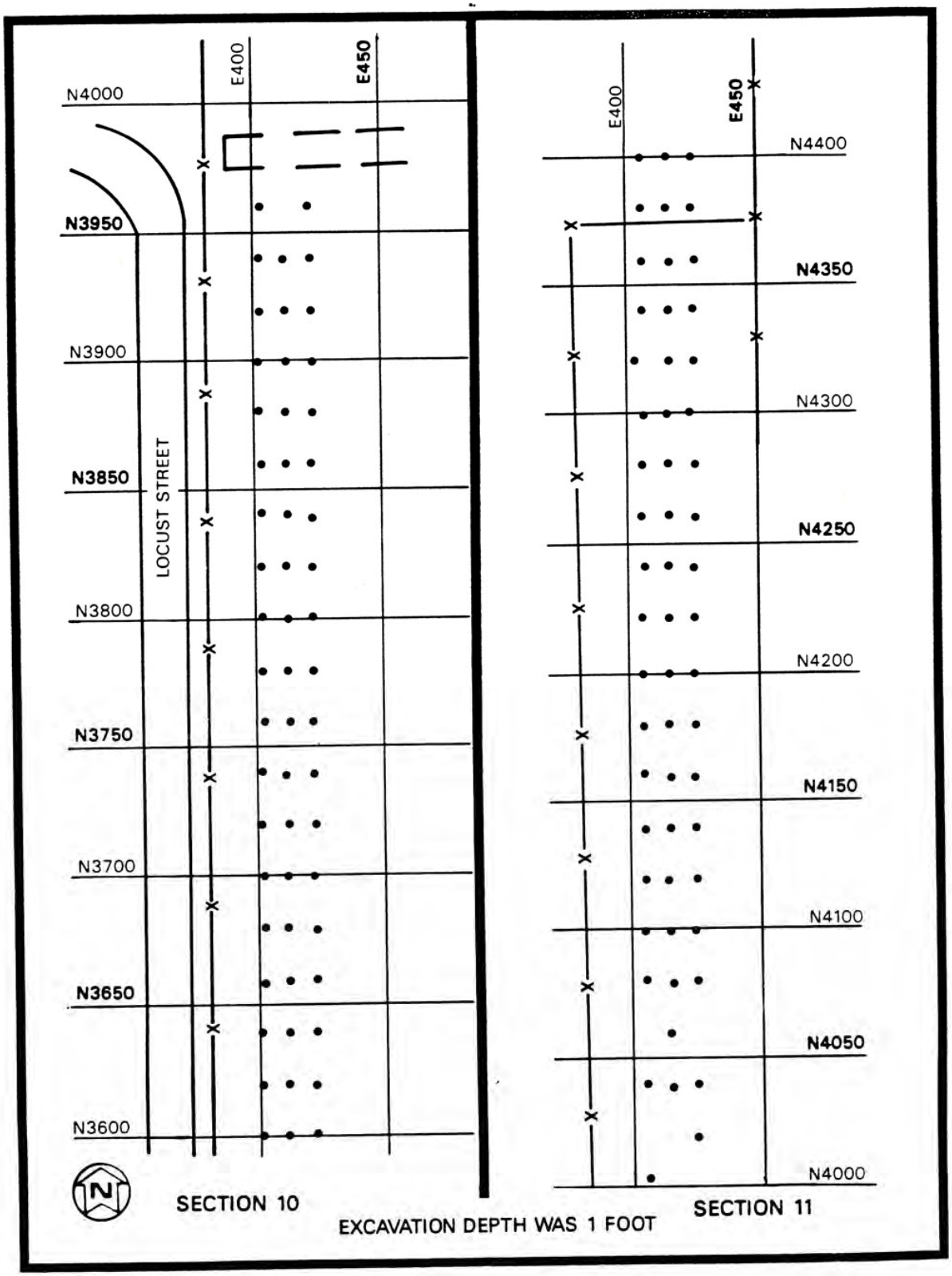


FIGURE 48 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 10 AND 11

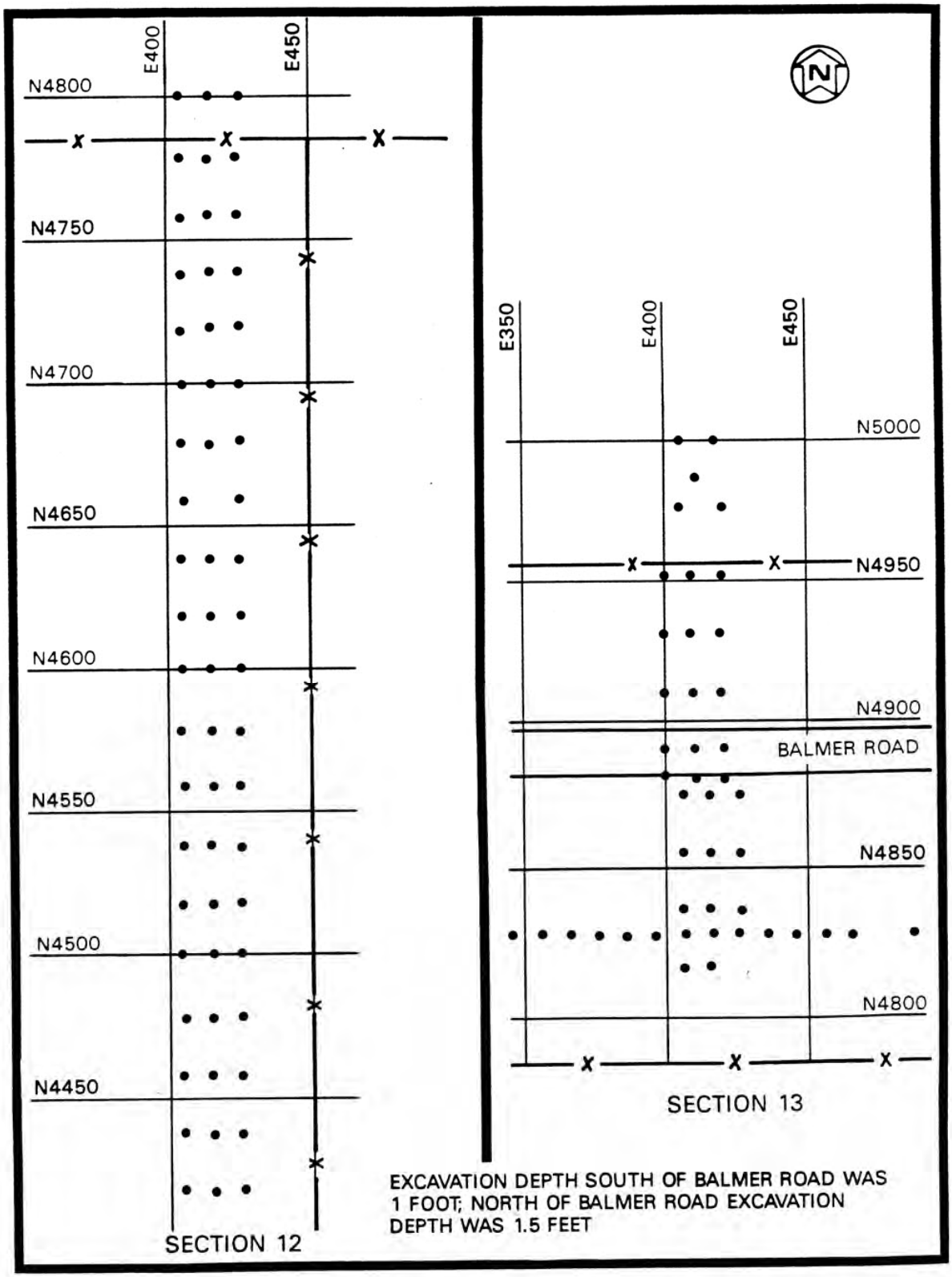


FIGURE 49 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 12 AND 13

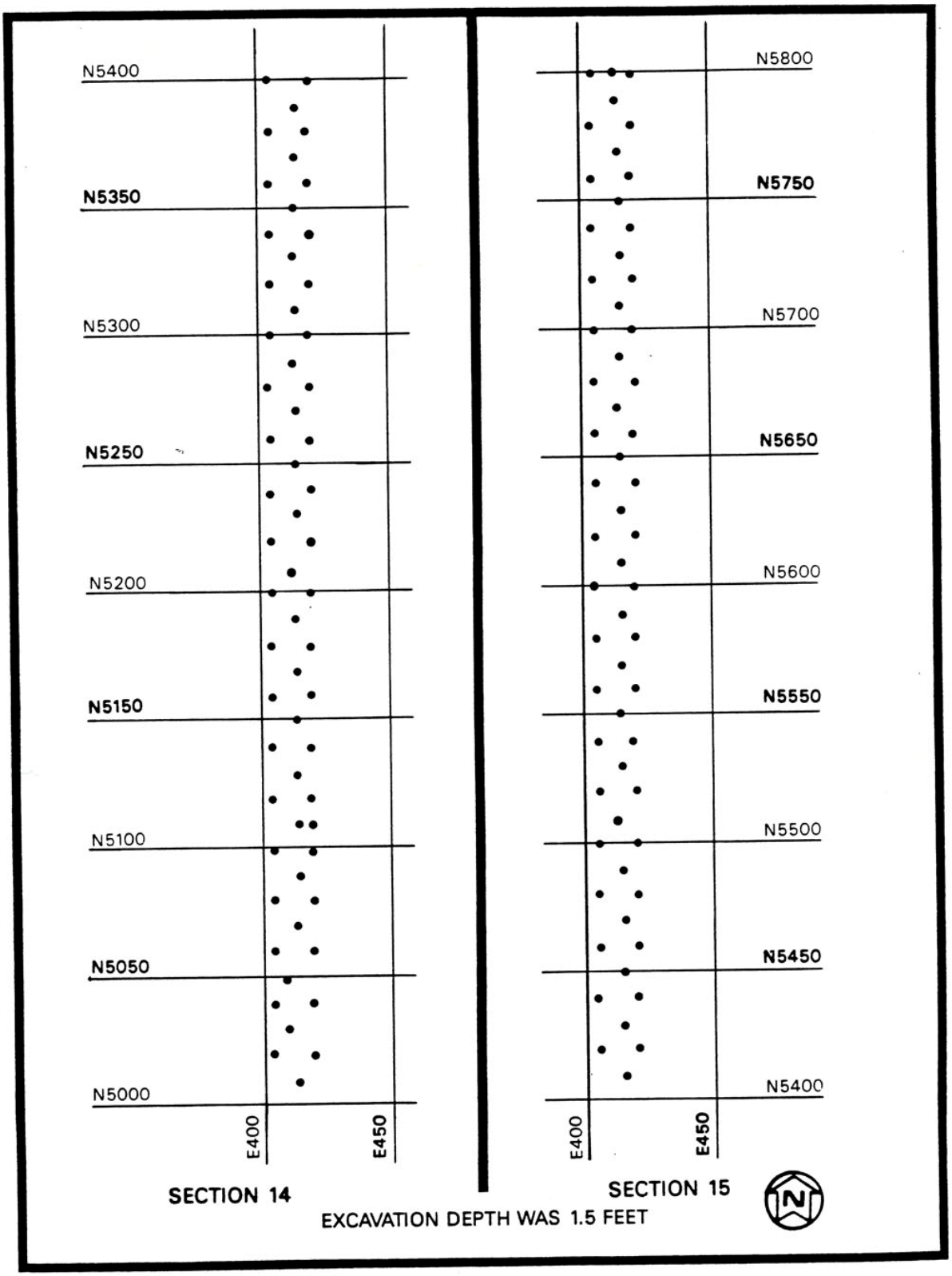


FIGURE 50 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 14 AND 15

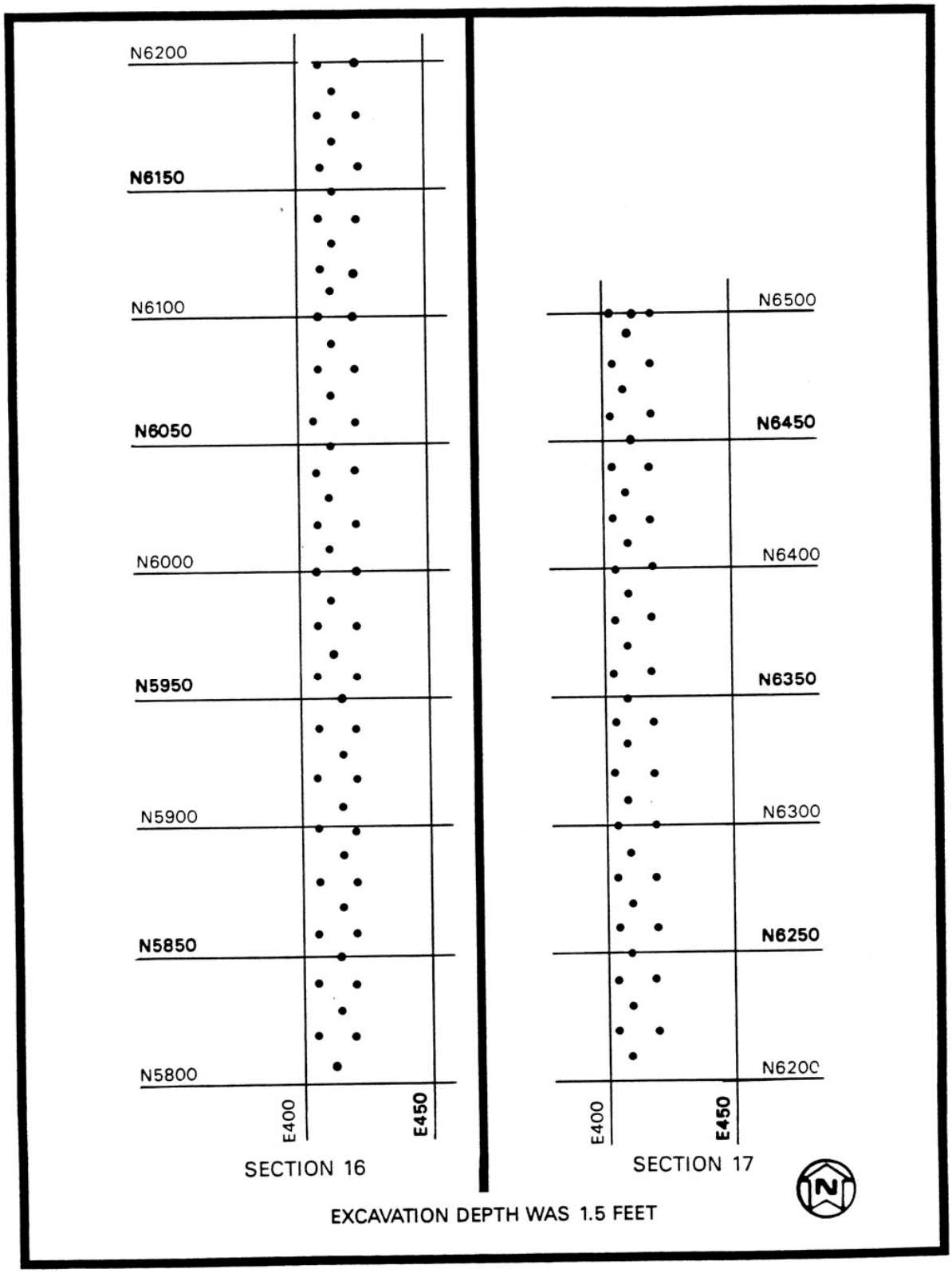


FIGURE 51 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 16 AND 17

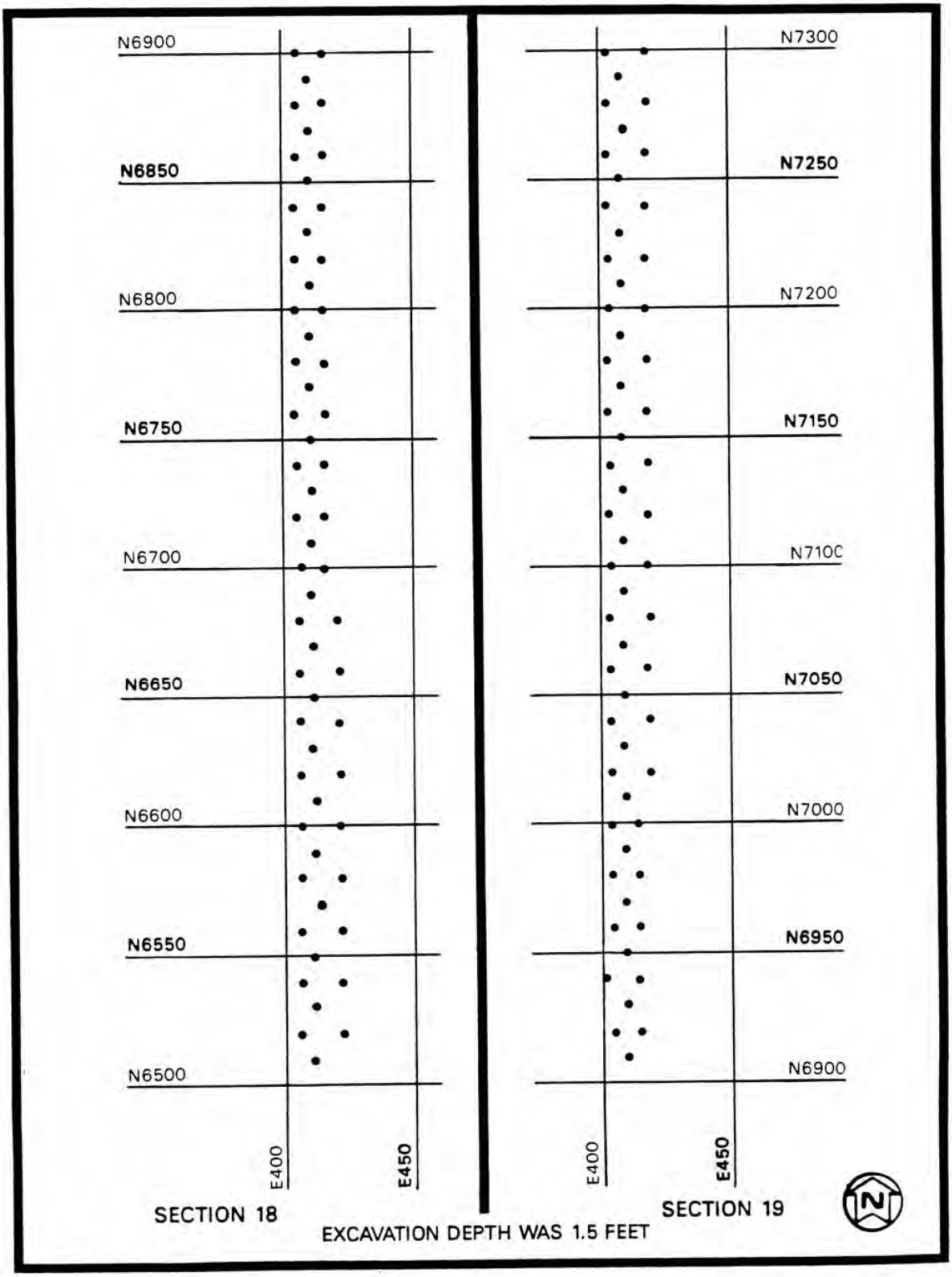


FIGURE 52 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 18 AND 19

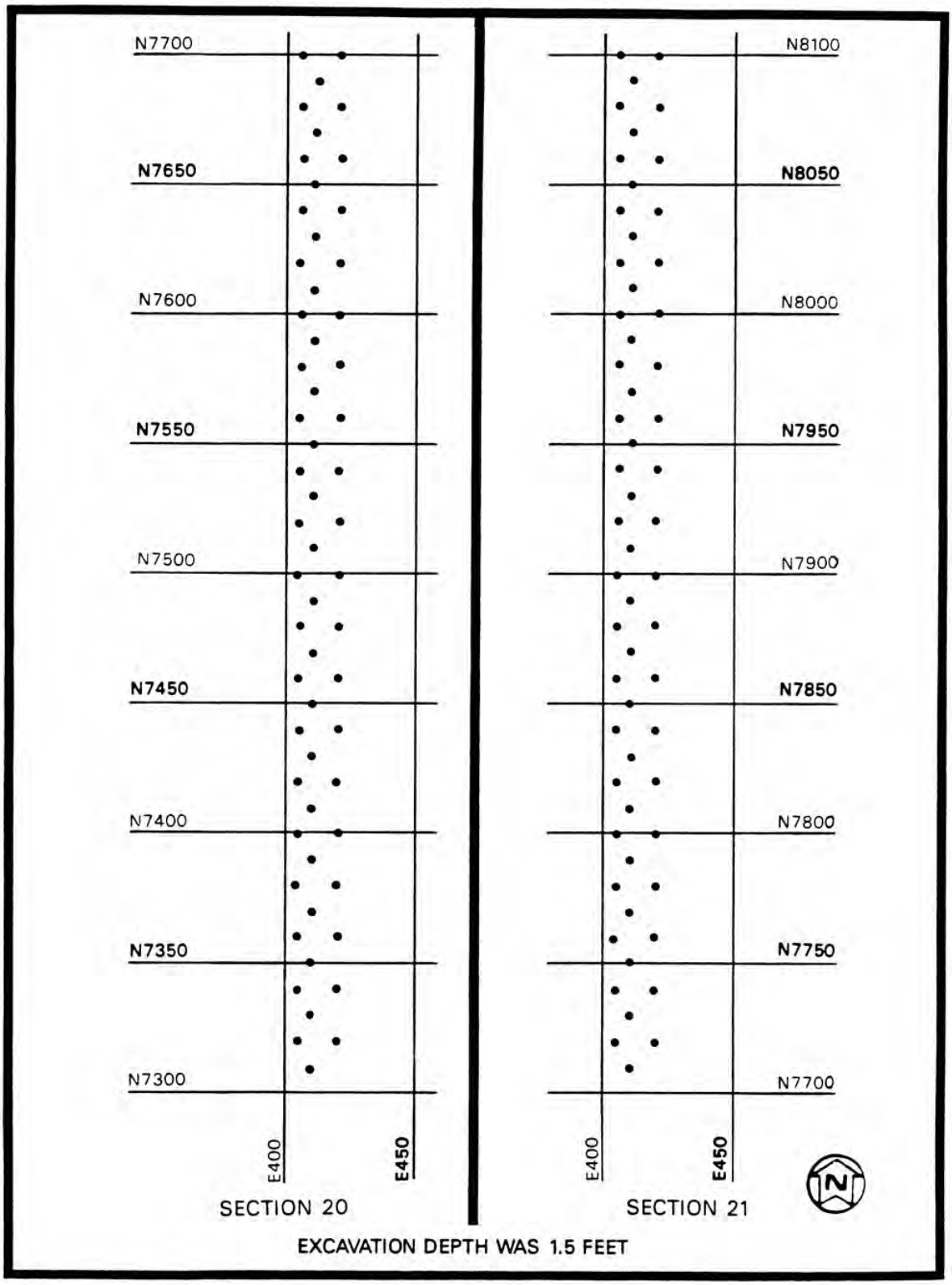


FIGURE 53 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 20 AND 21

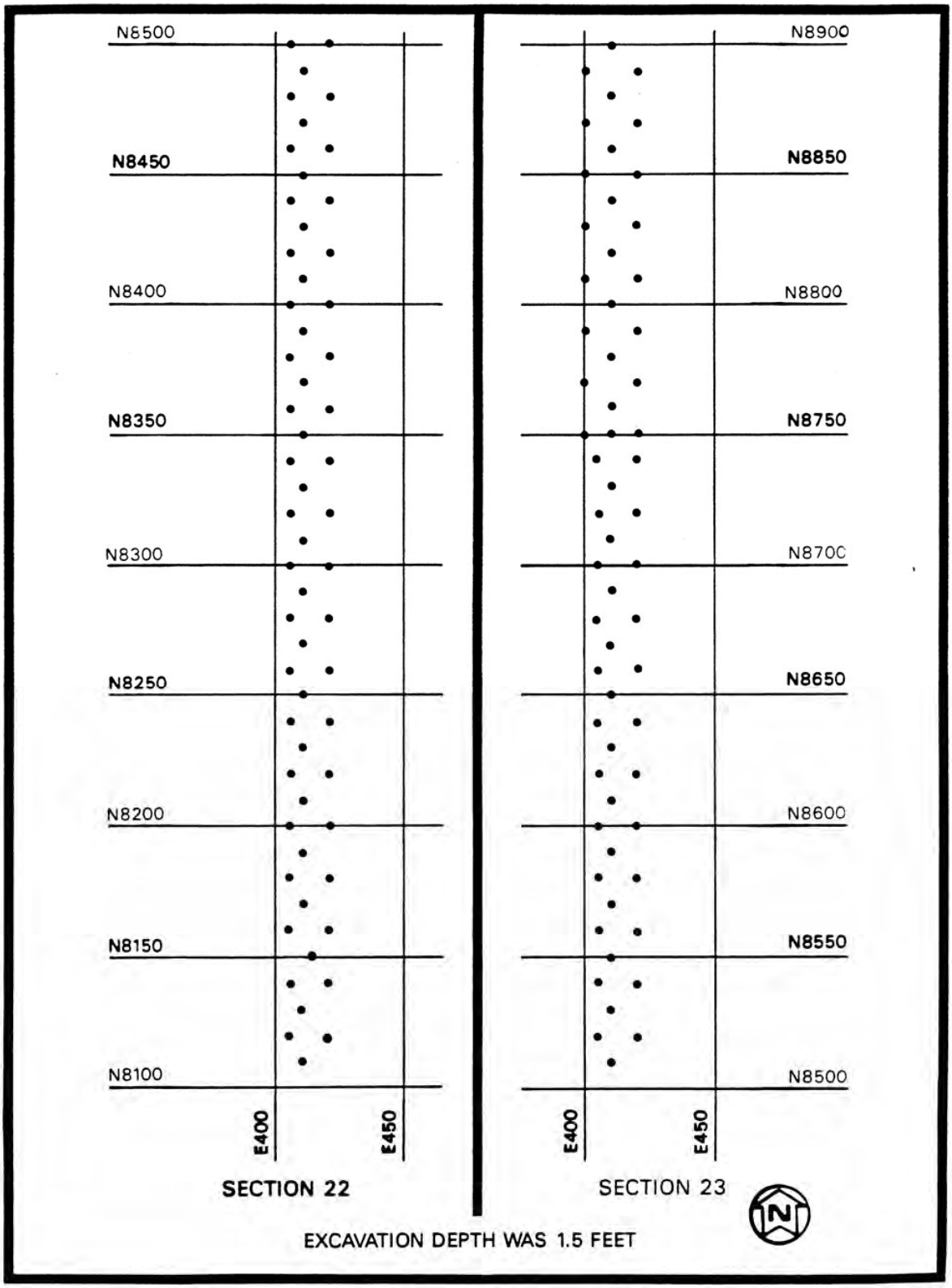


FIGURE 54 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTIONS 22 AND 23

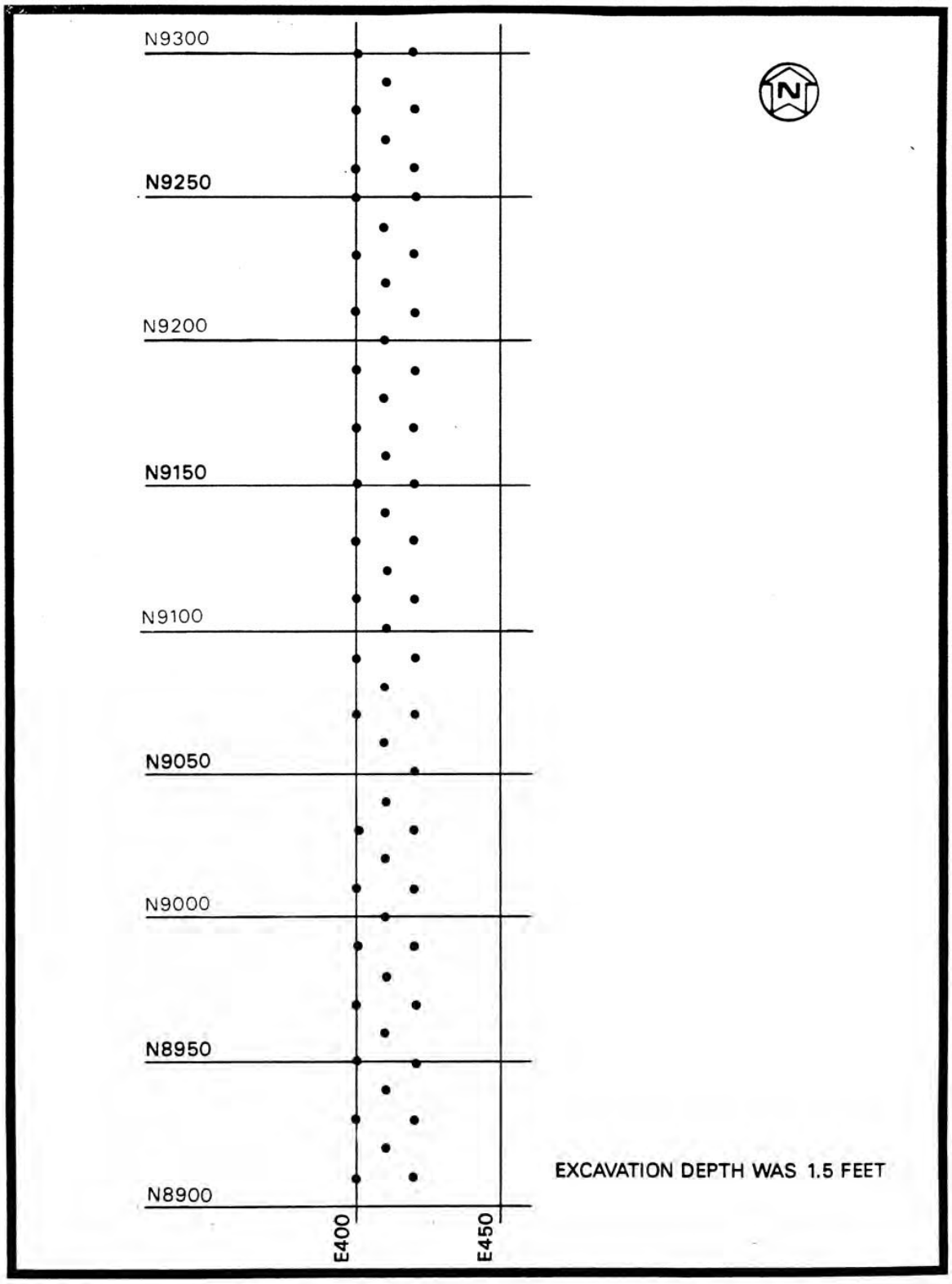


FIGURE 55 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 24

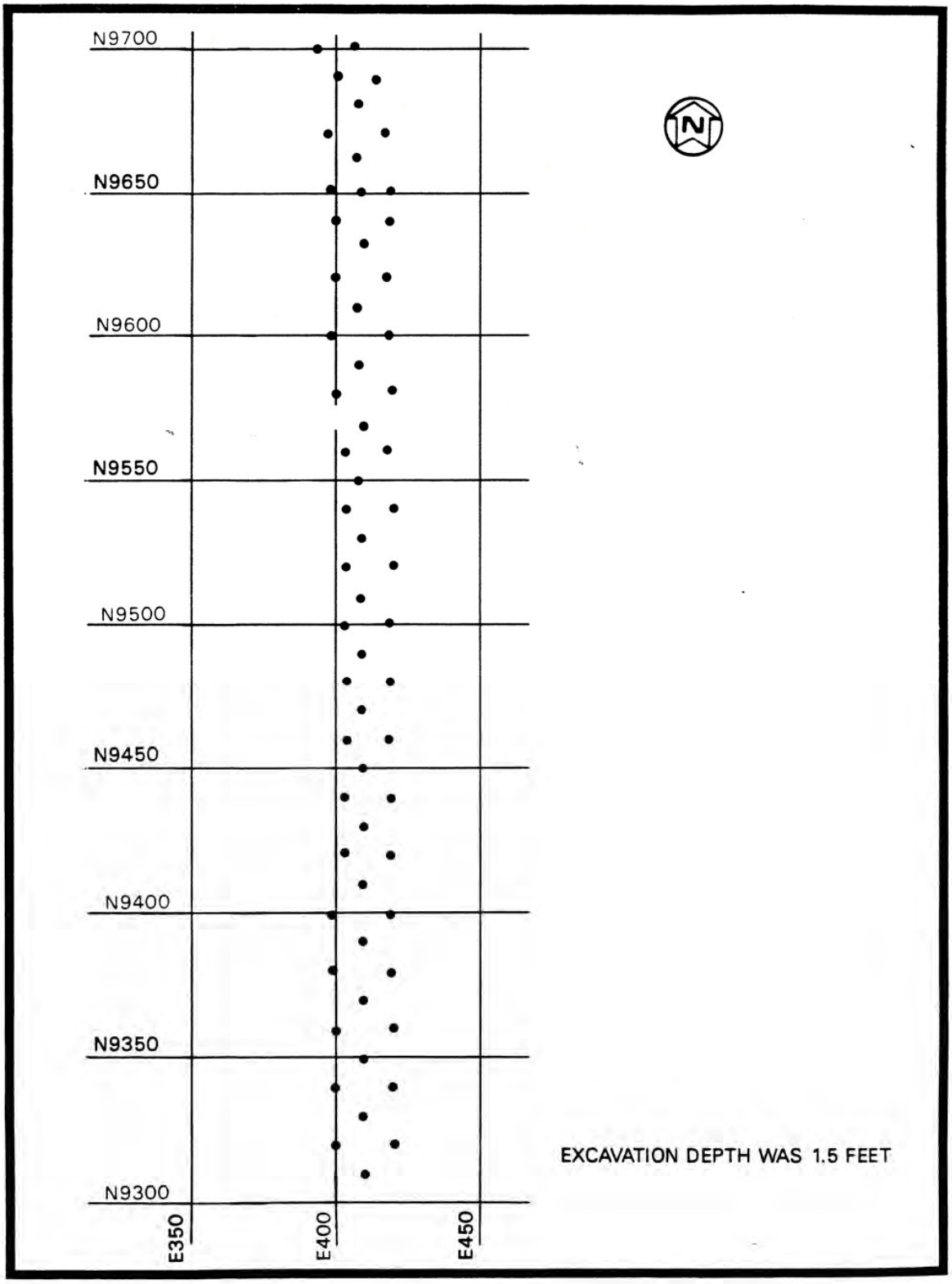


FIGURE 56 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 25

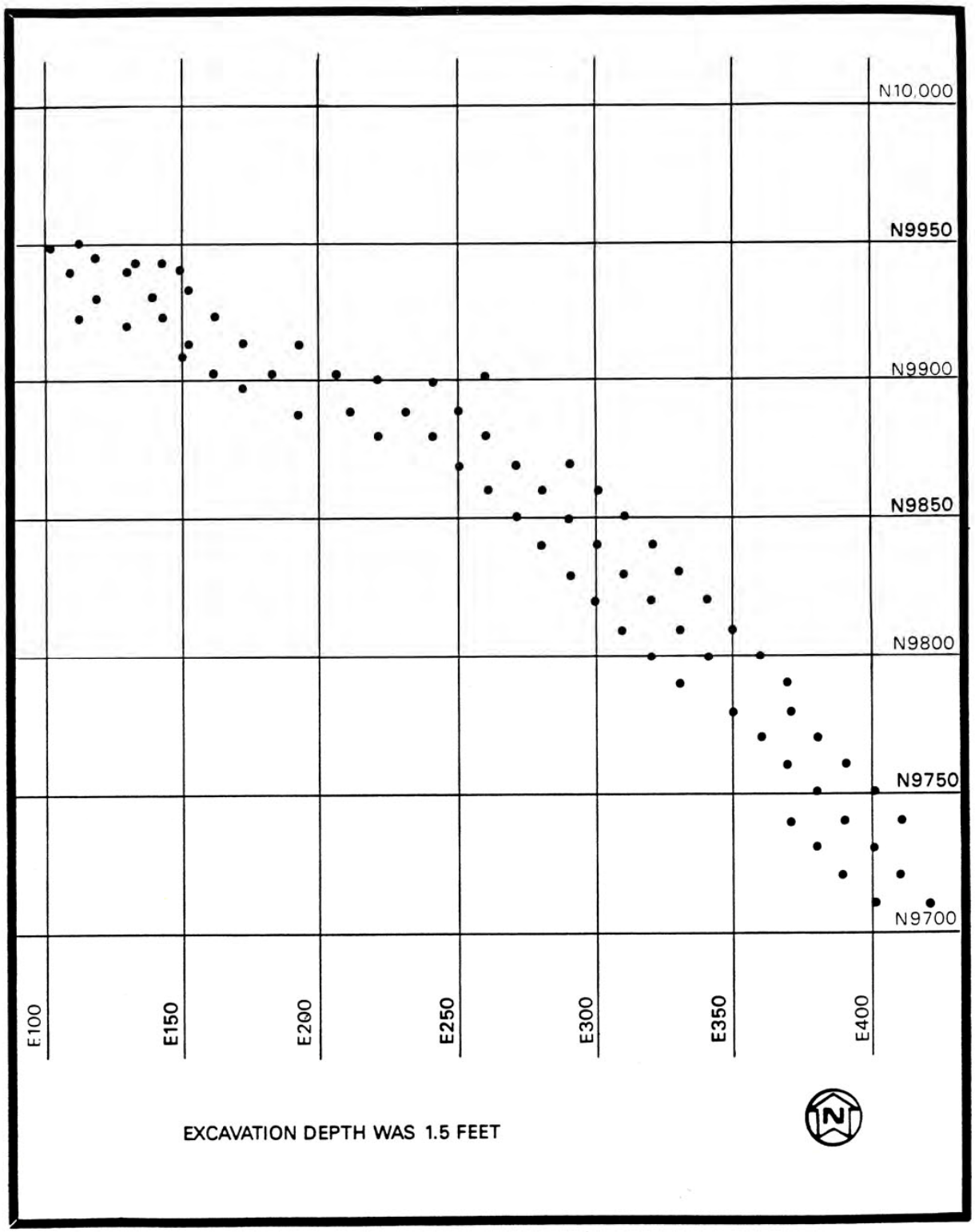


FIGURE 57 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 26

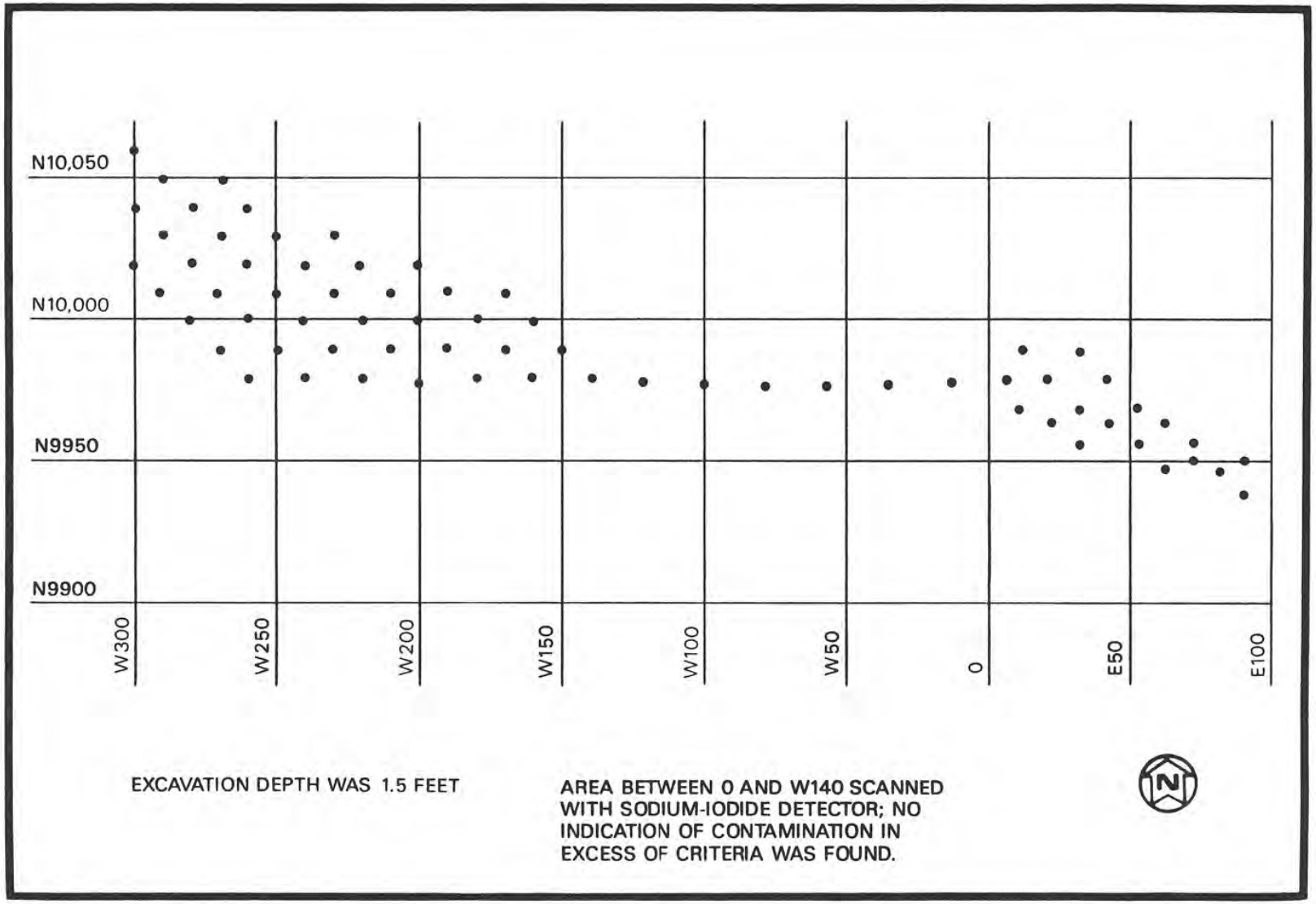


FIGURE 58 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 27

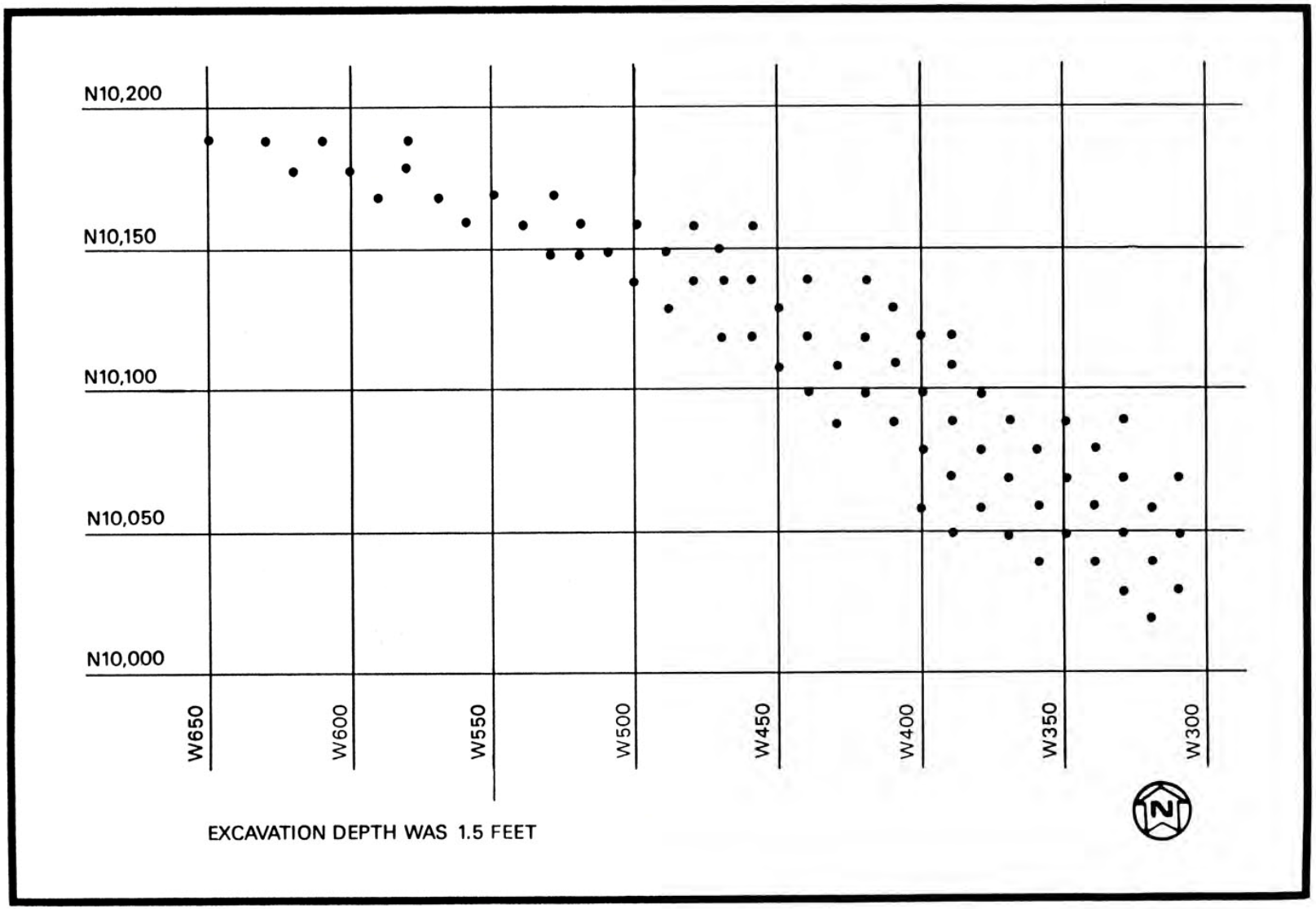


FIGURE 59 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 28

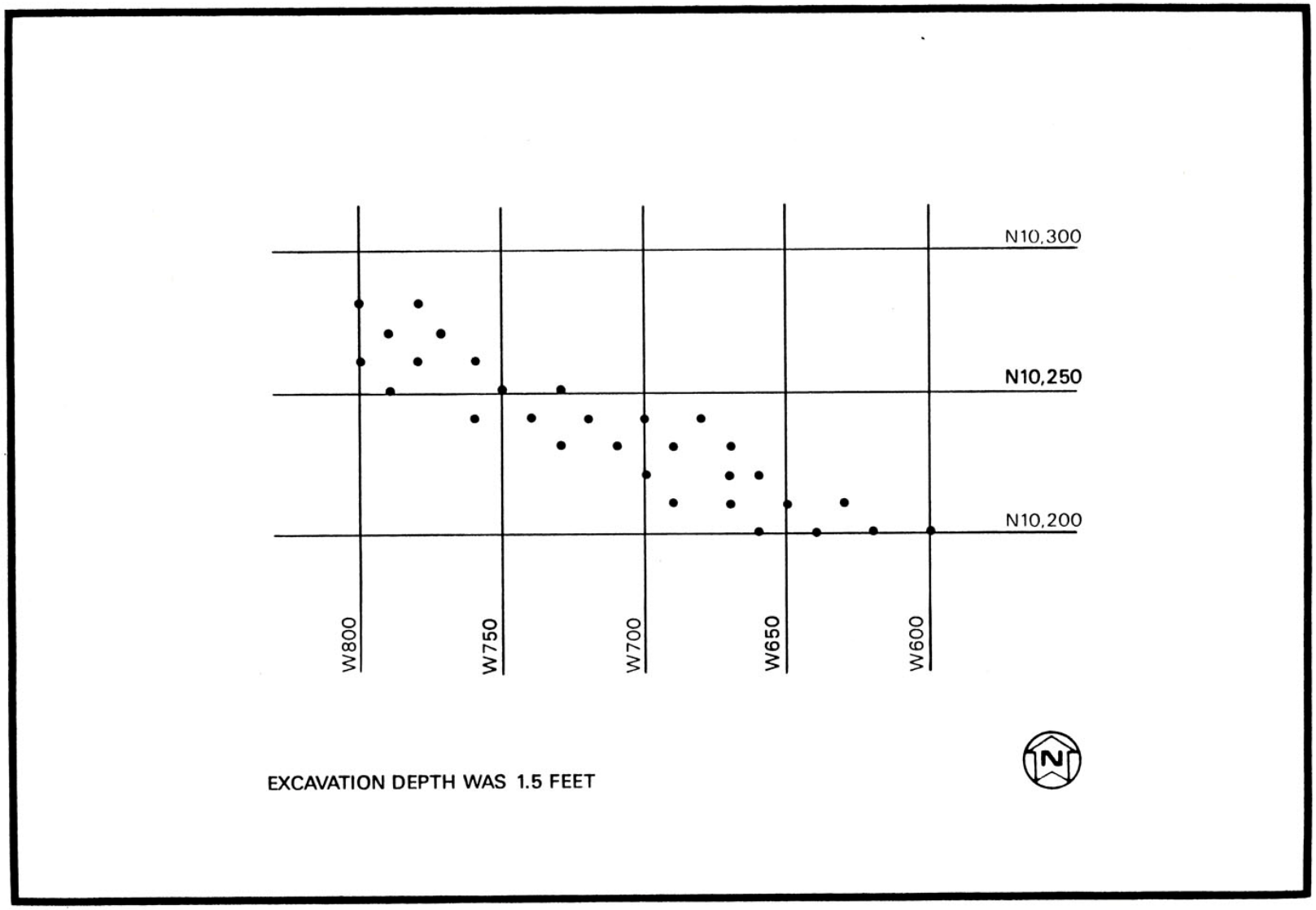


FIGURE 60 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 29

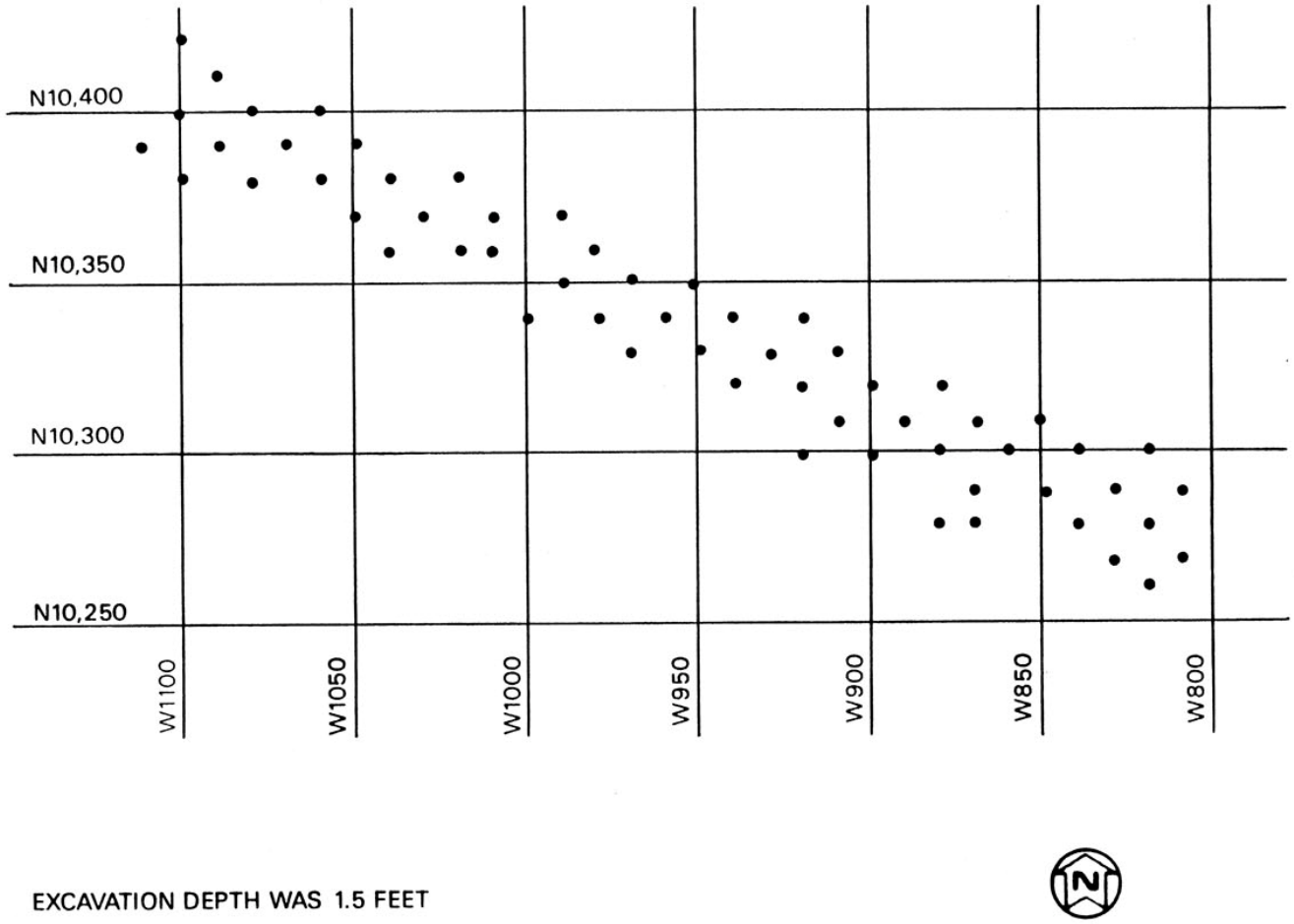


FIGURE 61 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 30

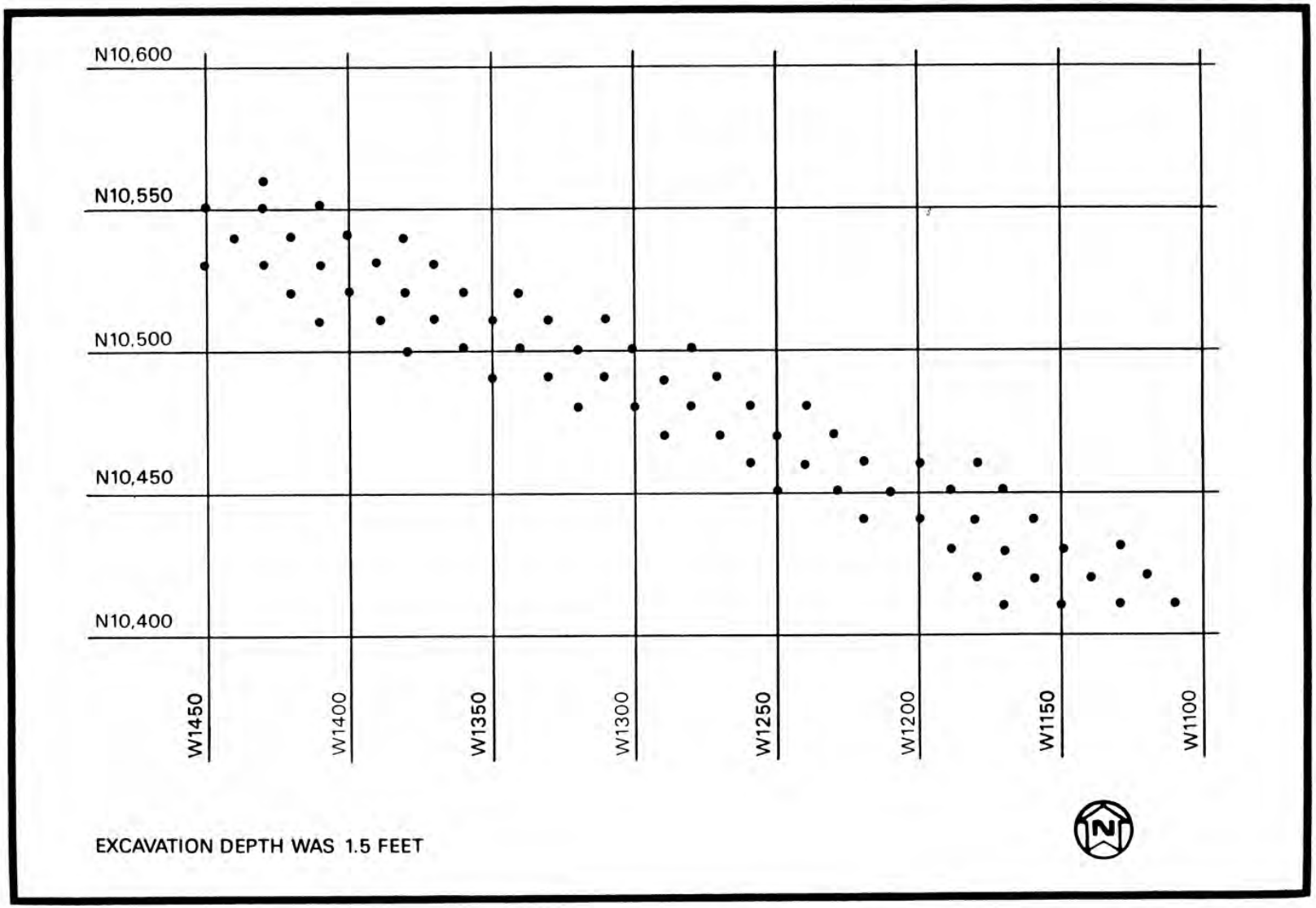


FIGURE 62 POST-REMEDIAL ACTION SAMPLING LOCATIONS ON THE CENTRAL DRAINAGE DITCH - SECTION 31

TABLE 13

POST-REMEDIAL ACTION SAMPLING RESULTS FOR THE CENTRAL DRAINAGE DITCH

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00005	N09980	2.8 ± 2.0	2.7 ± 0.2	1.4 ± 0.3
E00013	N09970	A	3.9 ± 0.2	A
E00013	N09990	A	1.2 ± 0.1	1.7 ± 0.3
E00020	N09980	A	1.2 ± 0.1	0.8 ± 0.2
E00023	N09965	A	1.9 ± 0.1	1.1 ± 0.2
E00033	N09958	A	1.0 ± 0.1	0.7 ± 0.1
E00033	N09970	A	2.6 ± 0.2	0.9 ± 0.2
E00033	N09990	A	1.4 ± 0.2	1.8 ± 0.2
E00043	N09965	A	6.1 ± 0.2	A
E00043	N09980	A	2.9 ± 0.2	1.5 ± 0.3
E00053	N09958	A	1.0 ± 0.2	A
E00053	N09970	0.6 ± 0.1	1.1 ± 0.1	1.2 ± 0.2
E00063	N09949	A	1.8 ± 0.2	A
E00063	N09965	A	8.0 ± 0.3	1.0 ± 0.3
E00073	N09950	A	1.3 ± 0.1	1.1 ± 0.2
E00073	N09958	A	1.3 ± 0.1	1.2 ± 0.2
E00083	N09949	6.6 ± 2.6	1.5 ± 0.2	1.4 ± 0.3
E00090	N09940	A	1.9 ± 0.2	0.9 ± 0.3
E00093	N09950	A	2.4 ± 0.2	0.5 ± 0.2
E00103	N09949	A	1.1 ± 0.1	1.6 ± 0.2
E00110	N09940	A	1.6 ± 0.1	0.9 ± 0.2
E00113	N09950	A	1.3 ± 0.2	0.9 ± 0.2
E00120	N09930	A	1.0 ± 0.1	1.2 ± 0.2
E00123	N09923	A	1.8 ± 0.3	A
E00130	N09920	A	1.4 ± 0.1	1.1 ± 0.2
E00130	N09940	A	1.2 ± 0.1	1.2 ± 0.2
E00132	N09942	0.7 ± 1.4	1.4 ± 0.2	0.9 ± 0.2
E00140	N09930	A	0.7 ± 0.1	0.9 ± 0.2
E00143	N09923	A	6.2 ± 0.3	0.6 ± 0.3
E00143	N09942	A	1.7 ± 0.1	1.1 ± 0.2
E00150	N09910	A	2.3 ± 0.2	0.5 ± 0.3
E00150	N09940	A	1.3 ± 0.2	0.9 ± 0.3
E00153	N09913	A	7.2 ± 0.3	0.9 ± 0.2
E00153	N09933	0.9 ± 0.6	1.0 ± 0.1	1.3 ± 0.2
E00163	N09903	A	3.0 ± 0.5	1.1 ± 0.4
E00163	N09923	A	4.1 ± 0.3	0.7 ± 0.3
E00173	N09897	A	1.5 ± 0.2	0.8 ± 0.2
E00173	N09913	5.5 ± 2.0	4.4 ± 0.2	1.1 ± 0.2
E00183	N09903	A	3.6 ± 0.2	1.4 ± 0.2
E00193	N09887	A	7.0 ± 0.3	1.1 ± 0.3
E00193	N09913	A	1.9 ± 0.2	1.6 ± 0.3
E00207	N09903	A	5.6 ± 0.4	0.4 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00210	N09890	A	1.0 ± 0.1	1.1 ± 0.2
E00220	N09880	A	1.0 ± 0.1	1.1 ± 0.2
E00220	N09900	A	9.0 ± 0.3	A
E00230	N09890	A	4.7 ± 0.2	1.1 ± 0.2
E00240	N09880	A	5.1 ± 0.2	1.2 ± 0.2
E00240	N09900	A	1.3 ± 0.1	1.3 ± 0.3
E00250	N09870	1.5 ± 1.5	1.8 ± 0.1	1.2 ± 0.2
E00250	N09890	A	2.0 ± 0.2	1.4 ± 0.3
E00260	N09860	A	1.2 ± 0.1	1.1 ± 0.2
E00260	N09880	A	1.9 ± 0.2	1.5 ± 0.2
E00260	N09903	A	2.5 ± 0.2	1.4 ± 0.2
E00270	N09850	A	1.3 ± 0.3	0.4 ± 0.2
E00270	N09870	A	1.2 ± 0.2	A
E00280	N09840	A	1.1 ± 0.1	A
E00280	N09860	7.2 ± 0.2	4.6 ± 0.2	1.0 ± 0.2
E00290	N09830	A	1.0 ± 0.1	1.5 ± 0.2
E00290	N09850	A	5.7 ± 0.2	1.1 ± 0.2
E00290	N09870	A	1.1 ± 0.1	0.8 ± 0.2
E00300	N09820	A	1.1 ± 0.1	1.0 ± 0.2
E00300	N09840	A	3.2 ± 0.2	A
E00300	N09860	A	1.2 ± 0.1	1.2 ± 0.3
E00310	N09810	A	1.4 ± 0.2	1.8 ± 0.3
E00310	N09830	A	3.2 ± 0.2	A
E00310	N09850	A	1.0 ± 0.2	1.6 ± 0.3
E00320	N09800	A	4.0 ± 0.3	0.7 ± 0.2
E00320	N09820	A	2.3 ± 0.2	0.6 ± 0.2
E00320	N09840	A	2.8 ± 0.2	1.2 ± 0.2
E00330	N09790	A	0.7 ± 0.1	1.0 ± 0.2
E00330	N09810	13.0 ± 3.8	12.6 ± 0.4	0.9 ± 0.4
E00330	N09830	2.6 ± 0.7	1.8 ± 0.2	0.8 ± 0.2
E00340	N09800	A	5.0 ± 0.2	0.8 ± 0.2
E00340	N09820	A	1.3 ± 0.1	1.1 ± 0.2
E00345	N04832	A	0.9 ± 0.1	0.8 ± 0.2
E00350	N09780	A	4.4 ± 0.3	1.0 ± 0.3
E00350	N09810	A	2.4 ± 0.2	1.0 ± 0.2
E00355	N04832	A	1.0 ± 0.1	0.9 ± 0.2
E00360	N09770	A	2.7 ± 0.2	1.0 ± 0.2
E00360	N09800	A	1.3 ± 0.1	1.0 ± 0.2
E00365	N04832	A	0.9 ± 0.1	0.9 ± 0.2
E00370	N09740	A	1.0 ± 0.1	1.1 ± 0.2
E00370	N09760	A	1.6 ± 0.1	1.3 ± 0.2
E00370	N09780	A	4.3 ± 0.3	1.5 ± 0.2
E00370	N09790	A	1.3 ± 0.1	1.3 ± 0.2
E00375	N04832	A	0.9 ± 0.2	0.9 ± 0.3

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00380	N09730	A	3.1 0.2	0.6 0.2
E00380	N09750	2.3 ± 1.0	6.2 ± 0.3	1.0 ± 0.3
E00380	N09770	3.2 ± 2.1	5.7 ± 0.3	0.7 ± 0.3
E00385	N04832	A	5.5 ± 0.3	0.8 ± 0.2
E00390	N09700	A	5.1 ± 0.3	1.1 ± 0.2
E00390	N09720	A	4.6 ± 0.2	A
E00390	N09740	A	9.1 ± 0.4	1.0 ± 0.4
E00390	N09760	A	6.4 ± 0.3	1.4 0.3
E00395	N04832	A	2.7 ± 0.3	0.7 ± 0.2
E00396	N02885	A	1.3 ± 0.2	1.2 ± 0.3
E00396	N03295	A	0.8 ± 0.1	0.9 ± 0.3
E00396	N03315	A	1.2 ± 0.2	0.9 ± 0.3
E00396	N03335	6.3 ± 2.1	1.1 ± 0.2	0.8 ± 0.2
E00396	N03355	A	1.0 ± 0.1	1.0 ± 0.2
E00398	N02808	A	0.8 ± 0.1	1.1 ± 0.2
E00398	N02826	A	1.2 ± 0.1	0.9 ± 0.2
E00398	N02845	A	0.8 ± 0.1	0.5 ± 0.2
E00398	N02867	A	0.9 ± 0.2	1.0 ± 0.3
E00399	N02786	A	1.2 ± 0.2	1.2 ± 0.2
E00400	N02767	A	1.1 ± 0.1	1.1 ± 0.3
E00400	N04886	0.7 ± 0.2	0.8 ± 0.1	1.0 ± 0.1
E00400	N04896	0.4 ± 0.2	1.4 ± 0.1	0.7 ± 0.1
E00400	N04916	0.2 ± 0.2	4.2 ± 0.1	0.7 ± 0.1
E00400	N04936	0.5 ± 0.2	1.0 ± 0.1	0.8 ± 0.1
E00400	N04956	0.3 ± 0.2	0.9 ± 0.1	0.9 ± 0.1
E00400	N08750	A	0.9 ± 0.1	1.0 ± 0.2
E00400	N08770	A	0.8 ± 0.1	0.6 ± 0.2
E00400	N08790	4.2 ± 1.4	1.3 ± 0.1	0.7 ± 0.1
E00400	N08810	A	1.2 ± 0.1	1.1 ± 0.2
E00400	N08830	A	1.3 ± 0.1	1.1 ± 0.2
E00400	N08850	A	0.8 ± 0.3	1.3 ± 0.7
E00400	N08870	A	2.6 ± 0.2	0.9 ± 0.2
E00400	N08890	A	1.3 ± 0.1	1.1 ± 0.2
E00400	N08910	A	1.1 ± 0.1	0.9 ± 0.1
E00400	N08930	A	2.2 ± 0.1	0.9 ± 0.2
E00400	N08950	A	0.9 ± 0.1	1.7 ± 0.2
E00400	N08970	A	1.7 ± 0.1	1.1 ± 0.2
E00400	N08990	A	1.1 ± 0.1	0.9 ± 0.1
E00400	N09010	A	7.5 ± 0.3	1.2 ± 0.3
E00400	N09030	A	5.2 ± 0.3	0.6 ± 0.2
E00400	N09070	A	1.6 ± 0.2	1.7 ± 0.1
E00400	N09090	A	1.2 ± 0.1	1.4 ± 0.2
E00400	N09110	A	1.6 ± 0.1	1.4 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00400	N09130	A	1.0 ± 0.1	1.0 ± 0.2
E00400	N09150	A	1.5 ± 0.1	0.9 ± 0.2
E00400	N09170	A	1.0 ± 0.1	1.4 ± 0.2
E00400	N09190	A	1.4 ± 0.1	1.5 ± 0.2
E00400	N09210	A	10.8 ± 0.3	0.8 ± 0.3
E00400	N09230	3.6 ± 1.7	2.1 ± 0.2	0.9 ± 0.2
E00400	N09250	A	1.3 ± 0.1	1.0 ± 0.2
E00400	N09260	A	1.1 ± 0.1	1.7 ± 0.2
E00400	N09280	A	1.6 ± 0.1	0.9 ± 0.2
E00400	N09300	A	7.6 ± 0.3	1.6 ± 0.3
E00400	N09320	A	1.3 ± 0.1	0.9 ± 0.2
E00400	N09340	A	2.1 ± 0.2	0.6 ± 0.2
E00400	N09360	A	1.4 ± 0.1	1.1 ± 0.2
E00400	N09380	A	2.5 ± 0.2	0.9 ± 0.2
E00400	N09400	A	2.2 ± 0.2	1.0 ± 0.2
E00400	N09580	A	1.7 ± 0.1	1.4 ± 0.2
E00400	N09600	3.7 ± 3.3	11.9 ± 0.4	1.6 ± 0.3
E00400	N09620	A	5.1 ± 0.3	A
E00400	N09640	3.5 ± 2.7	9.1 ± 0.4	1.2 ± 0.3
E00400	N09650	A	1.1 ± 0.2	1.1 ± 0.2
E00400	N09670	A	2.3 ± 0.2	1.3 ± 0.2
E00400	N09690	A	5.1 ± 0.3	0.9 ± 0.3
E00400	N09710	A	3.9 ± 0.2	0.9 ± 0.2
E00400	N09730	A	1.9 ± 0.2	0.8 ± 0.3
E00400	N09750	A	2.3 ± 0.2	1.4 ± 0.2
E00402	N02729	A	0.8 ± 0.2	0.9 ± 0.2
E00402	N02748	A	1.8 ± 0.2	1.4 ± 0.2
E00402	N03120	A	0.8 ± 0.1	0.6 ± 0.2
E00402	N03140	1.4 ± 0.5	0.9 ± 0.1	1.3 ± 0.1
E00402	N03160	A	0.7 ± 0.1	0.8 ± 0.1
E00402	N03180	A	1.0 ± 0.1	0.6 ± 0.2
E00402	N03200	A	0.9 ± 0.2	0.7 ± 0.2
E00402	N03220	A	0.9 ± 0.2	1.0 ± 0.2
E00402	N03240	A	1.1 ± 0.1	0.8 ± 0.2
E00402	N03560	A	1.0 ± 0.1	0.7 ± 0.3
E00402	N03580	A	0.6 ± 0.2	1.0 ± 0.2
E00402	N03600	A	0.8 ± 0.2	0.8 ± 0.2
E00402	N03620	A	0.8 ± 0.1	0.9 ± 0.1
E00402	N03640	A	1.3 ± 0.2	1.3 ± 0.3
E00402	N03660	2.2 ± 3.0	1.0 ± 0.1	1.0 ± 0.2
E00402	N03680	A	0.9 ± 0.2	0.8 ± 0.2
E00402	N03700	A	0.7 ± 0.1	0.8 ± 0.2
E00402	N03720	A	0.9 ± 0.2	0.6 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00402	N03740	A	0.7 ± 0.1	0.8 ± 0.2
E00402	N03760	A	1.1 ± 0.1	0.9 ± 0.2
E00402	N03780	A	0.9 ± 0.1	1.2 ± 0.2
E00402	N03800	A	0.8 ± 0.1	0.8 ± 0.1
E00402	N03820	A	0.9 ± 0.2	0.6 ± 0.3
E00402	N03840	A	2.6 ± 0.2	0.4 ± 0.2
E00402	N03860	A	0.7 ± 0.1	0.7 ± 0.2
E00402	N03880	A	0.8 ± 0.1	0.9 ± 0.2
E00402	N03900	A	1.0 ± 0.1	0.8 ± 0.2
E00402	N03920	A	1.8 ± 0.1	0.5 ± 0.1
E00402	N03940	A	1.0 ± 0.1	1.2 ± 0.2
E00402	N03960	A	0.8 ± 0.1	1.1 ± 0.2
E00402	N04320	A	0.9 ± 0.1	0.7 ± 0.2
E00402	N06940	A	1.3 ± 0.1	1.0 ± 0.2
E00405	N02686	A	0.9 ± 0.2	0.9 ± 0.3
E00405	N02709	A	0.5 ± 0.2	1.1 ± 0.3
E00405	N02900	A	1.3 ± 0.2	0.4 ± 0.2
E00405	N02910	A	0.9 ± 0.1	0.7 ± 0.2
E00405	N02920	A	1.4 ± 0.2	0.9 ± 0.2
E00405	N02930	A	2.7 ± 0.2	1.1 ± 0.2
E00405	N02940	A	1.7 ± 0.2	1.0 ± 0.2
E00405	N02950	A	1.7 ± 0.2	1.4 ± 0.2
E00405	N02960	A	2.2 ± 0.2	0.6 ± 0.2
E00405	N02970	A	1.2 ± 0.2	0.6 ± 0.2
E00405	N02980	A	1.2 ± 0.2	0.6 ± 0.2
E00405	N02990	A	1.0 ± 0.1	0.9 ± 0.3
E00405	N03000	A	1.0 ± 0.1	1.1 ± 0.2
E00405	N03010	A	0.9 ± 0.1	0.8 ± 0.2
E00405	N03020	A	1.3 ± 0.2	1.1 ± 0.2
E00405	N03030	A	1.0 ± 0.1	0.2 ± 0.2
E00405	N03040	A	0.8 ± 0.1	1.2 ± 0.3
E00405	N03050	3.7 ± 2.2	0.8 ± 0.1	0.8 ± 0.3
E00405	N03060	A	1.0 ± 0.1	1.0 ± 0.2
E00405	N03070	A	1.8 ± 0.2	0.8 ± 0.2
E00405	N03080	1.8 ± 2.4	1.1 ± 0.2	0.8 ± 0.2
E00405	N03090	A	1.1 ± 0.1	0.7 ± 0.3
E00405	N03100	A	0.5 ± 0.2	0.6 ± 0.3
E00405	N03260	A	0.8 ± 0.1	1.0 ± 0.3
E00405	N03280	A	0.8 ± 0.1	0.6 ± 0.2
E00405	N03360	A	1.1 ± 0.2	1.2 ± 0.3
E00405	N03400	A	0.8 ± 0.1	1.2 ± 0.2
E00405	N03420	A	0.9 ± 0.2	1.0 ± 0.2
E00405	N03440	0.7 ± 0.4	0.7 ± 0.1	1.3 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00405	N03460	A	0.8 ± 0.2	1.3 ± 0.2
E00405	N03480	A	1.4 ± 0.2	0.8 ± 0.3
E00405	N03500	A	0.9 ± 0.1	0.8 ± 0.2
E00405	N03520	2.4 ± 1.3	2.9 ± 0.3	1.4 ± 0.7
E00405	N03540	A	2.2 ± 0.2	1.0 ± 0.2
E00405	N04040	A	0.9 ± 0.2	0.9 ± 0.3
E00405	N04080	A	0.8 ± 0.1	0.8 ± 0.2
E00405	N04100	A	1.0 ± 0.1	0.5 ± 0.2
E00405	N04120	A	1.0 ± 0.1	0.8 ± 0.3
E00405	N04140	A	0.9 ± 0.1	0.9 ± 0.1
E00405	N04160	A	1.3 ± 0.1	1.3 ± 0.2
E00405	N04180	A	0.7 ± 0.1	0.6 ± 0.2
E00405	N04200	A	0.6 ± 0.1	0.5 ± 0.2
E00405	N04220	A	1.0 ± 0.1	0.7 ± 0.2
E00405	N04240	A	1.2 ± 0.2	0.5 ± 0.2
E00405	N04260	A	0.9 ± 0.1	1.0 ± 0.2
E00405	N04280	A	0.7 ± 0.2	0.4 ± 0.3
E00405	N04300	A	0.8 ± 0.1	0.8 ± 0.2
E00405	N04340	A	2.1 ± 0.1	0.9 ± 0.1
E00405	N04360	1.6 ± 0.7	0.9 ± 0.1	0.9 ± 0.1
E00405	N04380	A	0.8 ± 0.1	0.6 ± 0.3
E00405	N04400	A	1.0 ± 0.1	0.8 ± 0.2
E00405	N04420	A	0.8 ± 0.1	0.9 ± 0.2
E00405	N04440	A	1.1 ± 0.2	1.1 ± 0.2
E00405	N04460	A	1.1 ± 0.1	0.6 ± 0.2
E00405	N04480	A	0.6 ± 0.1	0.7 ± 0.2
E00405	N04500	A	0.7 ± 0.1	1.2 ± 0.2
E00405	N04520	A	1.1 ± 0.1	1.0 ± 0.2
E00405	N04540	A	0.5 ± 0.2	1.2 ± 0.3
E00405	N04560	A	0.7 ± 0.1	1.2 ± 0.2
E00405	N04580	A	0.9 ± 0.1	1.3 ± 0.2
E00405	N04600	A	0.7 ± 0.1	0.7 ± 0.3
E00405	N04620	A	0.1 ± 0.1	0.8 ± 0.2
E00405	N04640	A	1.1 ± 0.1	0.6 ± 0.2
E00405	N04660	A	0.9 ± 0.1	1.2 ± 0.2
E00405	N04680	A	0.8 ± 0.1	0.9 ± 0.3
E00405	N04700	A	0.8 ± 0.1	0.7 ± 0.2
E00405	N04720	A	1.0 ± 0.1	0.3 ± 0.2
E00405	N04740	A	0.7 ± 0.2	0.6 ± 0.2
E00405	N04760	0.4 ± 0.3	0.6 ± 0.1	0.5 ± 0.2
E00405	N04780	0.4 ± 0.4	0.8 ± 0.1	0.9 ± 0.2
E00405	N04800	A	1.4 ± 0.2	0.7 ± 0.2
E00405	N04820	A	4.2 ± 0.2	0.7 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00405	N04832	A	2.2 ± 0.2	0.8 ± 0.2
E00405	N04840	A	6.7 ± 0.4	0.8 ± 0.3
E00405	N04860	A	2.2 ± 0.2	1.0 ± 0.3
E00405	N04880	A	1.0 ± 0.1	0.8 ± 0.2
E00405	N04980	A	0.8 ± 0.1	0.4 ± 0.1
E00405	N05000	A	0.8 ± 0.1	1.0 ± 0.2
E00405	N05020	A	1.2 ± 0.1	0.5 ± 0.2
E00405	N05040	A	1.0 ± 0.1	A
E00405	N05060	A	1.1 ± 0.1	1.5 ± 0.2
E00405	N05080	A	0.9 ± 0.1	0.9 ± 0.1
E00405	N05100	A	2.7 ± 0.1	0.9 ± 0.1
E00405	N05120	A	1.1 ± 0.1	1.0 ± 0.2
E00405	N05140	A	1.1 ± 0.1	1.0 ± 0.2
E00405	N05160	A	4.0 ± 0.2	0.8 ± 0.2
E00405	N05180	A	0.8 ± 0.2	0.8 ± 0.4
E00405	N05200	A	1.0 ± 0.1	0.6 ± 0.1
E00405	N05220	A	0.8 ± 0.2	1.0 ± 0.1
E00405	N05240	A	1.2 ± 0.1	1.6 ± 0.2
E00405	N05260	A	0.8 ± 0.1	0.9 ± 0.2
E00405	N05280	A	0.7 ± 0.1	0.2 ± 0.1
E00405	N05300	A	0.9 ± 0.1	0.6 ± 0.1
E00405	N05320	A	0.9 ± 0.1	0.9 ± 0.2
E00405	N05340	A	2.3 ± 0.1	0.6 ± 0.2
E00405	N05360	A	0.7 ± 0.1	A
E00405	N05380	A	0.9 ± 0.1	0.7 ± 0.1
E00405	N05400	A	0.9 ± 0.1	1.8 ± 0.3
E00405	N05420	A	0.8 ± 0.1	0.7 ± 0.2
E00405	N05440	A	0.9 ± 0.1	1.4 ± 0.2
E00405	N05460	A	0.7 ± 0.1	0.8 ± 0.2
E00405	N05480	0.7 ± 0.5	0.8 ± 0.1	1.1 ± 0.2
E00405	N05500	A	0.9 ± 0.1	0.6 ± 0.2
E00405	N05520	A	0.7 ± 0.1	0.5 ± 0.2
E00405	N05540	A	1.4 ± 0.1	A
E00405	N05560	A	1.0 ± 0.1	0.9 ± 0.2
E00405	N05580	A	0.9 ± 0.1	1.0 ± 0.2
E00405	N05600	A	1.1 ± 0.1	0.9 ± 0.2
E00405	N05620	A	0.6 ± 0.1	A
E00405	N05640	A	1.3 ± 0.1	0.9 ± 0.2
E00405	N05660	A	1.1 ± 0.1	0.9 ± 0.2
E00405	N05680	A	1.1 ± 0.1	0.5 ± 0.2
E00405	N05700	A	0.8 ± 0.1	1.1 ± 0.2
E00405	N05720	A	6.9 ± 0.3	0.9 ± 0.3
E00405	N05740	A	13.6 ± 0.4	1.1 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00405	N05760	A	6.4 ± 0.3	0.4 ± 0.2
E00405	N05780	A	1.1 ± 0.1	0.9 ± 0.1
E00405	N05800	A	1.2 ± 0.1	0.9 ± 0.1
E00405	N05820	A	1.2 ± 0.1	1.3 ± 0.2
E00405	N05840	A	1.9 ± 0.1	0.5 ± 0.2
E00405	N05860	A	2.7 ± 0.2	1.0 ± 0.2
E00405	N05880	A	A	1.2 ± 0.7
E00405	N05900	A	1.2 ± 0.1	1.1 ± 0.2
E00405	N05920	1.8 ± 1.3	1.0 ± 0.1	1.0 ± 0.2
E00405	N05940	A	1.1 ± 0.1	1.3 ± 0.2
E00405	N05960	A	0.8 ± 0.1	0.9 ± 0.2
E00405	N05980	A	4.7 ± 0.2	0.7 ± 0.2
E00405	N06000	A	0.9 ± 0.1	0.9 ± 0.2
E00405	N06020	A	1.2 ± 0.1	0.7 ± 0.2
E00405	N06040	A	0.3 ± 0.1	A
E00405	N06060	A	0.8 ± 0.1	0.5 ± 0.2
E00405	N06080	A	0.2 ± 0.1	0.3 ± 0.1
E00405	N06100	A	1.0 ± 0.1	1.0 ± 0.2
E00405	N06120	A	0.5 ± 0.1	0.8 ± 0.2
E00405	N06140	A	1.2 ± 0.1	1.1 ± 0.2
E00405	N06160	A	1.1 ± 0.1	0.6 ± 0.1
E00405	N06180	A	0.9 ± 0.1	0.9 ± 0.2
E00405	N06200	A	1.3 ± 0.2	1.4 ± 0.3
E00405	N06220	A	0.7 ± 0.1	0.9 ± 0.2
E00405	N06240	A	0.8 ± 0.1	0.6 ± 0.2
E00405	N06260	A	0.9 ± 0.1	0.5 ± 0.1
E00405	N06280	A	1.0 ± 0.1	0.9 ± 0.2
E00405	N06300	1.7 ± 1.4	1.0 ± 0.1	1.6 ± 0.2
E00405	N06320	A	1.1 ± 0.1	1.1 ± 0.2
E00405	N06340	A	5.1 ± 0.3	1.0 ± 0.3
E00405	N06360	A	0.9 ± 0.1	A
E00405	N06380	A	1.7 ± 0.1	1.0 ± 0.2
E00405	N06400	A	11.4 ± 0.4	A
E00405	N06420	A	1.0 ± 0.1	0.4 ± 0.2
E00405	N06440	A	0.8 ± 0.1	0.5 ± 0.1
E00405	N06460	A	0.8 ± 0.1	0.5 ± 0.1
E00405	N06480	A	0.9 ± 0.1	1.2 ± 0.2
E00405	N06500	A	1.4 ± 0.2	A
E00405	N06520	A	2.0 ± 0.1	1.1 ± 0.2
E00405	N06540	A	1.0 ± 0.1	1.1 ± 0.2
E00405	N06560	A	8.5 ± 1.0	7.0 ± 1.4
E00405	N06580	A	0.9 ± 0.1	1.4 ± 0.2
E00405	N06600	A	0.7 ± 0.1	0.4 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00405	N06620	A	A	1.1 ± 0.1
E00405	N06640	A	0.8 ± 0.1	0.6 ± 0.1
E00405	N06660	A	0.8 ± 0.1	0.9 ± 0.2
E00405	N06680	A	0.7 ± 0.1	0.6 ± 0.1
E00405	N06700	A	1.0 ± 0.1	1.2 ± 0.2
E00405	N06720	A	1.0 ± 0.1	1.0 ± 0.1
E00405	N06740	A	0.8 ± 0.1	0.9 ± 0.2
E00405	N06760	A	3.0 ± 0.2	A
E00405	N06780	A	1.0 ± 0.1	1.1 ± 0.2
E00405	N06800	A	1.0 ± 0.1	1.2 ± 0.2
E00405	N06820	A	0.6 ± 0.1	1.0 ± 0.1
E00405	N06840	A	1.1 ± 0.1	1.1 ± 0.2
E00405	N06860	A	7.9 ± 0.3	1.0 ± 0.2
E00405	N06880	A	1.9 ± 0.1	1.1 ± 0.2
E00405	N06900	A	1.5 ± 0.1	1.1 ± 0.2
E00405	N06920	A	1.6 ± 0.2	1.4 ± 0.2
E00405	N06960	A	0.7 ± 0.1	0.2 ± 0.2
E00405	N06980	A	0.9 ± 0.1	0.7 ± 0.2
E00405	N07000	A	1.3 ± 0.2	0.9 ± 0.2
E00405	N07020	A	1.1 ± 0.1	1.1 ± 0.2
E00405	N07040	A	1.1 ± 0.1	0.9 ± 0.2
E00405	N07060	A	1.3 ± 0.1	1.1 ± 0.2
E00405	N07080	A	0.8 ± 0.1	0.9 ± 0.1
E00405	N07100	A	0.5 ± 0.1	0.6 ± 0.1
E00405	N07120	A	1.4 ± 0.2	1.4 ± 0.2
E00405	N07140	A	4.7 ± 0.2	1.1 ± 0.2
E00405	N07160	1.4 ± 1.1	1.3 ± 0.1	0.7 ± 0.1
E00405	N07180	A	1.0 ± 0.1	0.7 ± 0.2
E00405	N07200	A	1.0 ± 0.1	1.4 ± 0.2
E00405	N07220	A	3.5 ± 0.2	0.8 ± 0.2
E00405	N07240	A	1.3 ± 0.1	1.4 ± 0.2
E00405	N07260	A	0.8 ± 0.1	1.0 ± 0.2
E00405	N07280	A	1.1 ± 0.1	1.0 ± 0.2
E00405	N07300	A	1.3 ± 0.1	1.5 ± 0.2
E00405	N07320	A	0.7 ± 0.1	0.6 ± 0.2
E00405	N07340	0.8 ± 0.8	0.9 ± 0.1	0.8 ± 0.2
E00405	N07360	A	0.2 ± 0.2	0.5 ± 0.4
E00405	N07380	A	1.2 ± 0.1	1.5 ± 0.2
E00405	N07400	A	0.8 ± 0.1	0.9 ± 0.1
E00405	N07420	A	1.3 ± 0.1	1.8 ± 0.2
E00405	N07440	A	0.9 ± 0.1	0.8 ± 0.1
E00405	N07460	A	0.9 ± 0.1	1.0 ± 0.2
E00405	N07480	A	0.9 ± 0.1	1.2 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00405	N07500	A	0.8 ± 0.1	0.8 ± 0.2
E00405	N07520	A	1.0 ± 0.1	1.1 ± 0.2
E00405	N07540	A	0.8 ± 0.1	0.8 ± 0.1
E00405	N07560	A	0.9 ± 0.1	1.3 ± 0.2
E00405	N07580	A	0.8 ± 0.1	1.0 ± 0.1
E00405	N07600	A	4.3 ± 0.2	1.3 ± 0.2
E00405	N07620	A	1.0 ± 0.1	A
E00405	N07640	A	1.1 ± 0.1	1.1 ± 0.2
E00405	N07660	5.7 ± 1.6	0.6 ± 0.1	1.1 ± 0.2
E00405	N07680	A	0.8 ± 0.1	0.6 ± 0.1
E00405	N07700	A	1.7 ± 0.1	0.8 ± 0.2
E00405	N07720	A	0.7 ± 0.1	0.8 ± 0.2
E00405	N07740	A	0.9 ± 0.1	0.8 ± 0.1
E00405	N07760	2.3 ± 1.2	1.1 ± 0.1	1.5 ± 0.2
E00405	N07780	2.2 ± 1.1	0.6 ± 0.1	0.8 ± 0.2
E00405	N07800	3.9 ± 1.3	A	0.9 ± 0.2
E00405	N07820	A	1.0 ± 0.1	1.0 ± 0.2
E00405	N07840	A	1.0 ± 0.1	0.6 ± 0.1
E00405	N07860	A	2.3 ± 0.2	0.8 ± 0.2
E00405	N07880	A	0.7 ± 0.1	0.9 ± 0.1
E00405	N07900	A	0.9 ± 0.1	1.0 ± 0.1
E00405	N07920	A	0.9 ± 0.1	0.8 ± 0.1
E00405	N07940	A	1.2 ± 0.1	0.7 ± 0.2
E00405	N07960	A	0.7 ± 0.1	0.5 ± 0.1
E00405	N07980	A	1.0 ± 0.1	0.4 ± 0.2
E00405	N08000	A	1.3 ± 0.1	1.4 ± 0.2
E00405	N08020	A	1.0 ± 0.1	0.7 ± 0.2
E00405	N08040	A	0.8 ± 0.1	0.4 ± 0.1
E00405	N08060	A	1.6 ± 0.1	0.7 ± 0.2
E00405	N08080	A	1.2 ± 0.1	1.1 ± 0.2
E00405	N08100	A	2.4 ± 0.2	1.0 ± 0.2
E00405	N08120	A	4.5 ± 0.2	1.7 ± 0.2
E00405	N08140	A	3.9 ± 0.2	A
E00405	N08160	A	0.7 ± 0.1	1.0 ± 0.2
E00405	N08180	A	3.7 ± 0.2	1.0 ± 0.2
E00405	N08200	A	1.2 ± 0.1	0.9 ± 0.1
E00405	N08220	A	0.8 ± 0.1	0.8 ± 0.2
E00405	N08240	5.0 ± 1.3	0.9 ± 0.1	0.7 ± 0.2
E00405	N08260	A	3.4 ± 0.2	0.7 ± 0.2
E00405	N08280	A	1.1 ± 0.1	0.8 ± 0.1
E00405	N08300	A	0.8 ± 0.1	1.0 ± 0.2
E00405	N08320	A	1.5 ± 0.1	0.9 ± 0.1
E00405	N08340	A	1.1 ± 0.1	0.8 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00405	N08360	A	2.4 ± 0.2	0.8 ± 0.2
E00405	N08380	A	1.8 ± 0.1	1.2 ± 0.2
E00405	N08400	A	1.3 ± 0.1	0.8 ± 0.2
E00405	N08420	A	5.1 ± 0.2	1.2 ± 0.2
E00405	N08440	A	11.8 ± 0.4	1.0 ± 0.2
E00405	N08460	A	0.8 ± 0.1	0.6 ± 0.2
E00405	N08480	A	2.2 ± 0.1	0.5 ± 0.2
E00405	N08500	A	0.9 ± 0.1	0.6 ± 0.1
E00405	N08520	A	1.0 ± 0.1	0.7 ± 0.2
E00405	N08540	A	0.7 ± 0.1	0.7 ± 0.2
E00405	N08560	A	0.9 ± 0.1	0.9 ± 0.2
E00405	N08580	A	0.9 ± 0.1	A
E00405	N08600	7.7 ± 1.6	0.9 ± 0.1	0.7 ± 0.1
E00405	N08620	A	1.0 ± 0.1	1.5 ± 0.2
E00405	N08640	A	0.7 ± 0.1	1.2 ± 0.2
E00405	N08660	A	1.0 ± 0.1	0.9 ± 0.2
E00405	N08680	A	1.2 ± 0.1	0.8 ± 0.2
E00405	N08700	A	2.7 ± 0.2	0.6 ± 0.2
E00405	N08720	3.1 ± 1.6	1.1 ± 0.1	0.9 ± 0.3
E00405	N08740	A	3.7 ± 0.2	0.9 ± 0.3
E00405	N09420	A	1.0 ± 0.1	1.3 ± 0.2
E00405	N09440	A	7.5 ± 0.3	1.4 ± 0.3
E00405	N09460	A	1.2 ± 0.1	1.2 ± 0.2
E00405	N09480	A	1.3 ± 0.1	1.0 ± 0.2
E00405	N09500	A	2.0 ± 0.2	1.2 ± 0.2
E00405	N09520	A	1.0 ± 0.1	1.1 ± 0.2
E00405	N09540	A	2.4 ± 0.2	1.1 ± 0.3
E00405	N09560	A	1.7 ± 0.2	1.4 ± 0.2
E00406	N02885	A	2.0 ± 0.2	0.9 ± 0.2
E00406	N04005	A	0.9 ± 0.1	1.0 ± 0.2
E00408	N02668	A	1.0 ± 0.1	0.7 ± 0.2
E00408	N02808	A	1.1 ± 0.2	0.4 ± 0.2
E00408	N02826	A	0.8 ± 0.2	1.2 ± 0.4
E00408	N02845	3.1 ± 0.6	1.0 ± 0.1	1.3 ± 0.1
E00408	N02867	A	1.0 ± 0.1	0.9 ± 0.2
E00409	N02786	A	1.6 ± 0.1	A
E00410	N02645	A	1.5 ± 0.2	1.4 ± 0.3
E00410	N02767	A	0.9 ± 0.1	0.8 ± 0.2
E00410	N03315	A	A	0.6 ± 0.2
E00410	N03335	A	A	1.1 ± 0.2
E00410	N03355	A	A	0.9 ± 0.2
E00410	N04886	0.7 ± 0.2	1.2 ± 0.1	1.3 ± 0.1
E00410	N04896	0.9 ± 0.1	0.9 ± 0.1	1.0 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00410	N04916	0.8 ± 0.2	1.3 ± 0.1	0.9 ± 0.1
E00410	N04936	1.3 ± 0.2	1.4 ± 0.1	0.9 ± 0.1
E00410	N04956	1.6 ± 0.2	1.8 ± 0.1	0.8 ± 0.1
E00410	N05990	A	1.2 ± 0.1	0.7 ± 0.2
E00410	N06010	A	1.1 ± 0.1	1.0 ± 0.1
E00410	N06030	A	1.0 ± 0.1	0.9 ± 0.2
E00410	N06050	A	0.8 ± 0.1	0.8 ± 0.2
E00410	N06070	A	0.7 ± 0.1	0.2 ± 0.1
E00410	N06090	A	1.0 ± 0.1	0.9 ± 0.1
E00410	N06110	A	2.0 ± 0.1	1.1 ± 0.2
E00410	N06130	A	2.3 ± 0.2	0.9 ± 0.2
E00410	N06150	A	1.1 ± 0.1	8.0 ± 0.1
E00410	N06170	A	1.4 0.2	1.4 ± 0.5
E00410	N06190	A	0.9 ± 0.1	0.7 ± 0.1
E00410	N06210	A	0.9 ± 0.1	0.7 ± 0.2
E00410	N06230	A	0.6 ± 0.1	0.6 ± 0.2
E00410	N06250	A	1.2 ± 0.1	0.9 ± 0.2
E00410	N06270	2.0 ± 1.0	0.7 ± 0.3	A
E00410	N06290	A	1.0 ± 0.1	A
E00410	N06310	A	0.6 ± 0.2	0.6 ± 0.3
E00410	N06330	A	0.6 ± 0.1	1.0 ± 0.2
E00410	N06350	A	0.7 ± 0.2	0.9 ± 0.3
E00410	N06370	A	0.9 ± 0.1	0.9 ± 0.1
E00410	N06390	A	1.3 ± 0.1	0.6 ± 0.1
E00410	N06410	A	1.8 ± 0.1	A
E00410	N06430	A	1.4 ± 0.1	0.5 ± 0.2
E00410	N06450	A	1.0 ± 0.1	1.2 ± 0.2
E00410	N06470	A	1.3 ± 0.1	0.9 ± 0.2
E00410	N06490	A	7.0 ± 0.2	A
E00410	N06500	A	1.1 ± 0.1	0.7 ± 0.1
E00410	N06510	A	1.1 ± 0.1	A
E00410	N06530	A	1.3 ± 0.1	1.1 ± 0.1
E00410	N06550	A	0.9 ± 0.1	1.1 ± 0.2
E00410	N06570	A	1.3 ± 0.4	A
E00410	N06590	A	0.8 ± 0.1	0.7 ± 0.2
E00410	N06610	A	1.2 ± 0.1	0.8 ± 0.2
E00410	N06630	1.7 ± 0.8	0.6 ± 0.1	0.8 ± 0.1
E00410	N06650	A	0.8 ± 0.1	1.0 ± 0.2
E00410	N06670	A	0.9 ± 0.1	1.5 ± 0.2
E00410	N06690	A	0.9 ± 0.1	0.4 ± 0.2
E00410	N06710	A	0.8 ± 0.2	0.6 ± 0.3
E00410	N06730	A	1.4 ± 0.1	1.0 ± 0.1
E00410	N06750	A	0.9 ± 0.1	0.8 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00410	N06770	A	1.2 ± 0.1	1.0 ± 0.2
E00410	N06790	A	0.9 ± 0.1	1.0 ± 0.2
E00410	N06810	A	0.9 ± 0.1	0.7 ± 0.2
E00410	N06830	A	6.5 ± 0.3	0.6 ± 0.3
E00410	N06850	A	1.0 ± 0.1	0.9 ± 0.2
E00410	N06870	A	1.3 ± 0.1	0.5 ± 0.1
E00410	N06890	A	2.6 ± 0.2	0.9 ± 0.2
E00410	N06910	A	1.0 ± 0.1	1.0 ± 0.2
E00410	N06930	A	0.7 ± 0.1	1.5 ± 0.3
E00410	N06950	A	0.6 ± 0.1	0.9 ± 0.1
E00410	N06970	A	1.1 ± 0.1	0.9 ± 0.1
E00410	N06990	A	1.1 ± 0.1	1.4 ± 0.2
E00410	N07010	A	0.9 ± 0.1	1.0 ± 0.2
E00410	N07030	A	0.8 ± 0.1	A
E00410	N07050	A	1.0 ± 0.1	0.9 ± 0.2
E00410	N07070	A	0.4 ± 0.1	1.5 ± 0.2
E00410	N07090	A	0.7 ± 0.1	0.6 ± 0.1
E00410	N07110	A	1.0 ± 0.1	0.8 ± 0.2
E00410	N07130	A	0.7 ± 0.1	0.7 ± 0.2
E00410	N07150	1.9 ± 1.3	1.0 ± 0.1	1.6 ± 0.2
E00410	N07170	A	1.0 ± 0.1	0.5 ± 0.1
E00410	N07190	A	0.8 ± 0.1	0.8 ± 0.1
E00410	N07210	A	0.7 ± 0.1	0.8 ± 0.2
E00410	N07230	A	1.3 ± 0.1	1.5 ± 0.2
E00410	N07250	A	1.5 ± 0.1	1.0 ± 0.2
E00410	N07270	A	2.5 ± 0.2	1.2 ± 0.2
E00410	N07290	A	1.4 ± 0.2	0.9 ± 0.2
E00410	N07310	A	0.7 ± 0.1	1.1 ± 0.3
E00410	N07330	A	0.8 ± 0.1	0.9 ± 0.2
E00410	N07350	A	1.4 ± 0.1	1.0 ± 0.2
E00410	N07370	A	0.9 ± 0.3	1.1 ± 0.5
E00410	N07390	3.5 ± 1.4	0.8 ± 0.1	1.0 ± 0.2
E00410	N07410	A	0.9 ± 0.1	1.1 ± 0.2
E00410	N07430	A	0.8 ± 0.1	1.0 ± 0.2
E00410	N07450	A	0.8 ± 0.1	0.8 ± 0.2
E00410	N07470	A	1.1 ± 0.1	1.1 ± 0.2
E00410	N07490	A	4.7 ± 0.2	0.8 ± 0.2
E00410	N07510	A	10.2 ± 0.4	1.1 ± 0.2
E00410	N07530	A	1.0 ± 0.1	0.7 ± 0.1
E00410	N07550	A	0.9 ± 0.1	1.1 ± 0.2
E00410	N07570	A	1.4 ± 0.2	1.3 ± 0.3
E00410	N07590	A	0.9 0.1	1.0 ± 0.2
E00410	N07610	A	1.6 ± 0.1	1.0 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00410	N07630	A	0.9 ± 0.1	1.2 ± 0.2
E00410	N07650	A	1.3 ± 0.1	1.5 ± 0.3
E00410	N07670	A	0.7 ± 0.1	0.8 ± 0.1
E00410	N07690	A	1.0 ± 0.1	1.2 ± 0.2
E00410	N07710	A	1.4 ± 0.1	1.1 ± 0.1
E00410	N07730	A	1.0 ± 0.1	0.7 ± 0.2
E00410	N07750	A	0.6 ± 0.1	0.5 ± 0.1
E00410	N07770	A	1.1 ± 0.1	1.5 ± 0.2
E00410	N07790	2.7 ± 1.1	1.0 ± 0.1	1.6 ± 0.2
E00410	N07810	A	1.0 ± 0.1	1.5 ± 0.2
E00410	N07830	A	0.9 ± 0.1	0.9 ± 0.2
E00410	N07850	A	1.1 ± 0.1	1.3 ± 0.2
E00410	N07870	A	0.9 ± 0.1	1.1 ± 0.2
E00410	N07890	A	0.8 ± 0.1	0.8 ± 0.2
E00410	N07910	A	0.8 ± 0.1	0.9 ± 0.2
E00410	N07930	A	1.0 ± 0.2	0.8 ± 0.3
E00410	N07950	A	0.8 ± 0.1	0.8 ± 0.2
E00410	N07970	2.8 ± 1.2	0.9 ± 0.1	0.7 ± 0.1
E00410	N07990	A	1.4 ± 0.1	0.7 ± 0.2
E00410	N08010	A	3.9 ± 0.3	1.0 ± 0.2
E00410	N08030	A	3.5 ± 0.2	1.0 ± 02
E00410	N08050	A	0.9 ± 0.1	0.9 ± 0.2
E00410	N08070	A	0.9 ± 0.1	0.9 ± 0.1
E00410	N08090	3.6 ± 1.9	1.2 ± 0.1	1.5 ± 0.3
E00410	N08110	A	1.0 ± 0.1	0.7 ± 0.1
E00410	N08130	A	11.6 ± 0.4	A
E00410	N08150	2.1 ± 2.2	4.2 ± 0.2	0.9 ± 0.2
E00410	N08170	A	0.8 ± 0.1	0.5 ± 0.2
E00410	N08190	A	1.0 ± 0.1	1.0 ± 0.2
E00410	N08210	A	0.9 ± 0.1	1.1 ± 0.1
E00410	N08230	A	1.1 ± 0.1	1.0 ± 0.3
E00410	N08250	A	1.0 ± 0.1	0.9 ± 0.1
E00410	N08270	A	1.2 ± 0.1	1.1 ± 0.2
E00410	N08290	A	8.7 ± 0.3	1.0 ± 0.3
E00410	N08310	A	1.1 ± 0.1	1.1 ± 0.1
E00410	N08330	A	1.1 ± 0.1	0.7 ± 0.1
E00410	N08350	A	0.8 ± 0.1	1.2 ± 0.2
E00410	N08370	A	1.0 ± 0.1	0.9 ± 0.2
E00410	N08390	A	1.3 ± 0.1	0.6 ± 0.1
E00410	N08410	A	3.4 ± 0.1	1.0 ± 0.2
E00410	N08430	A	6.9 ± 0.3	1.3 ± 0.2
E00410	N08450	A	4.3 ± 0.2	1.3 ± 0.2
E00410	N08470	1.5 ± 1.1	1.1 ± 0.1	0.6 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00410	N08490	A	2.0 ± 0.1	0.7 ± 0.1
E00410	N08510	A	1.2 ± 0.1	1.1 ± 0.3
E00410	N08530	A	0.7 ± 0.1	1.1 ± 0.2
E00410	N08550	A	0.8 ± 0.1	0.7 ± 0.1
E00410	N08570	3.0 ± 1.8	4.6 ± 0.2	0.7 ± 0.2
E00410	N08590	A	7.2 ± 0.2	1.0 ± 0.2
E00410	N08610	A	3.0 ± 0.2	0.8 ± 0.2
E00410	N08630	A	1.3 ± 0.1	1.1 ± 0.2
E00410	N08650	A	14.3 ± 0.4	1.3 ± 0.3
E00410	N08670	A	0.9 ± 0.1	1.4 ± 0.2
E00410	N08690	A	9.1 ± 0.3	0.5 ± 0.3
E00410	N08710	A	6.5 ± 0.2	0.9 ± 0.3
E00410	N08730	A	1.2 ± 0.1	1.0 ± 0.2
E00410	N08750	A	2.9 ± 0.2	0.7 ± 0.2
E00410	N08760	2.6 ± 1.1	2.1 ± 0.1	0.8 ± 0.2
E00410	N08780	A	3.2 ± 0.2	0.7 ± 0.2
E00410	N08800	A	0.6 ± 0.1	0.5 ± 0.1
E00410	N08820	3.0 ± 1.2	1.2 ± 0.1	1.5 ± 0.2
E00410	N08840	A	1.0 ± 0.1	1.7 ± 0.2
E00410	N08860	2.9 ± 1.5	1.5 ± 0.1	1.0 ± 0.2
E00410	N08880	A	2.6 ± 0.2	1.3 ± 0.2
E00410	N08900	A	1.4 ± 0.1	1.0 ± 0.2
E00410	N08920	4.0 ± 1.6	4.1 ± 0.2	1.0 ± 0.2
E00410	N08940	A	5.8 ± 0.3	1.3 ± 0.3
E00410	N08960	A	11.2 ± 0.4	1.0 ± 0.3
E00410	N08980	A	2.9 ± 0.2	0.7 ± 0.2
E00410	N09000	A	2.4 ± 0.2	0.9 ± 0.2
E00410	N09020	3.1 ± 4.0	11.8 ± 0.4	1.7 ± 0.4
E00410	N09040	A	16.2 ± 0.5	A
E00410	N09060	A	3.5 ± 0.2	0.9 ± 0.2
E00410	N09080	A	4.9 ± 0.2	0.9 ± 0.3
E00410	N09100	A	8.4 ± 0.3	1.2 ± 0.3
E00410	N09120	1.1 ± 1.3	3.4 ± 0.2	0.8 ± 0.2
E00410	N09140	A	3.5 ± 0.2	0.6 ± 0.2
E00410	N09160	A	4.0 ± 0.3	0.9 ± 0.2
E00410	N09180	A	4.4 ± 0.2	1.0 ± 0.2
E00410	N09200	A	3.7 ± 0.2	A
E00410	N09220	A	1.5 ± 0.1	A
E00410	N09240	A	5.5 ± 0.2	0.5 ± 0.3
E00410	N09270	A	3.0 ± 0.1	0.9 ± 0.1
E00410	N09290	A	2.5 ± 0.2	1.2 ± 0.2
E00410	N09310	A	2.2 ± 0.1	0.4 ± 0.1
E00410	N09330	A	0.9 ± 0.1	0.8 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00410	N09350	A	1.3 ± 0.1	1.0 ± 0.2
E00410	N09370	A	1.2 ± 0.1	1.0 ± 0.1
E00410	N09390	A	5.1 ± 0.2	0.8 ± 0.2
E00410	N09410	A	1.5 ± 0.1	0.4 ± 0.2
E00410	N09430	A	1.0 ± 0.1	0.6 ± 0.1
E00410	N09450	2.8 ± 1.4	3.0 ± 0.2	0.9 ± 0.1
E00410	N09470	5.0 ± 1.2	0.9 ± 0.1	1.0 ± 0.1
E00410	N09490	A	1.3 ± 0.1	0.8 ± 0.2
E00410	N09510	2.1 ± 0.2	3.4 ± 0.2	0.7 ± 0.2
E00410	N09530	2.5 ± 1.5	1.4 ± 0.1	1.2 ± 0.2
E00410	N09550	A	1.2 ± 0.2	1.4 ± 0.2
E00410	N09570	A	2.1 ± 0.2	1.0 ± 0.2
E00410	N09590	2.2 ± 1.4	1.5 ± 0.1	1.1 ± 0.2
E00410	N09610	A	3.1 ± 0.2	1.3 ± 0.2
E00410	N09630	A	1.1 ± 0.1	0.8 ± 0.2
E00410	N09650	A	7.5 ± 0.3	1.1 ± 0.2
E00410	N09660	A	5.2 ± 0.2	0.5 ± 0.2
E00410	N09680	A	6.1 ± 0.3	1.0 ± 0.3
E00410	N09700	A	4.2 ± 0.3	1.2 ± 0.3
E00410	N09720	A	2.0 ± 0.1	0.8 ± 0.3
E00410	N09740	A	1.9 ± 0.2	1.4 ± 0.2
E00411	N02748	A	1.0 ± 0.1	1.0 ± 0.2
E00412	N02729	A	0.7 ± 0.2	0.8 ± 0.2
E00412	N03120	A	0.8 ± 0.2	0.5 ± 0.2
E00412	N03140	A	0.9 ± 0.1	0.2 ± 0.1
E00412	N03160	A	0.9 ± 0.2	0.9 ± 0.4
E00412	N03180	A	0.9 ± 0.2	0.7 ± 0.2
E00412	N03200	A	1.1 ± 0.2	0.7 ± 0.3
E00412	N03220	A	0.7 ± 0.2	1.5 ± 0.4
E00412	N03240	A	1.1 ± 0.1	1.4 ± 0.2
E00412	N03560	A	1.0 ± 0.1	0.9 ± 0.2
E00412	N03600	A	0.6 ± 0.1	0.4 ± 0.2
E00412	N03620	A	0.7 ± 0.2	0.7 ± 0.2
E00412	N03640	A	1.8 ± 0.2	1.1 ± 0.2
E00412	N03680	5.5 ± 2.2	0.9 ± 0.1	0.8 ± 0.2
E00412	N03700	5.1 ± 1.9	1.2 ± 0.1	1.3 ± 0.2
E00412	N03720	1.4 ± 0.8	0.8 ± 0.1	0.6 ± 0.2
E00412	N03740	A	0.9 ± 0.1	1.2 ± 0.2
E00412	N03760	A	0.9 ± 0.1	0.9 ± 0.2
E00412	N03780	A	0.6 ± 0.1	0.9 ± 0.2
E00412	N03800	A	0.9 ± 0.1	1.2 ± 0.2
E00412	N03820	A	0.8 ± 0.2	0.9 ± 0.2
E00412	N03840	A	0.8 ± 0.1	1.2 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00412	N03860	A	0.8 ± 0.2	0.8 ± 0.2
E00412	N03880	0.4 ± 0.4	0.6 ± 0.1	0.9 ± 0.3
E00412	N03900	A	0.8 ± 0.1	0.9 ± 0.2
E00412	N03920	A	0.8 ± 0.1	0.8 ± 0.1
E00412	N03940	0.5 ± 0.2	0.7 ± 0.1	0.8 ± 0.1
E00413	N03660	A	1.2 ± 0.1	0.8 ± 0.2
E00414	N02607	A	0.6 ± 0.1	0.9 ± 0.2
E00414	N02625	A	0.7 ± 0.1	1.2 ± 0.2
E00414	N02769	A	0.8 ± 0.2	0.9 ± 0.3
E00414	N03580	A	1.3 ± 0.2	1.0 ± 0.2
E00415	N02686	A	1.0 ± 0.1	0.9 ± 0.2
E00415	N02900	A	1.0 ± 0.1	0.7 ± 0.2
E00415	N02910	A	1.7 ± 0.2	0.8 ± 0.3
E00415	N02920	A	1.1 ± 0.1	1.4 ± 0.2
E00415	N02930	A	0.9 ± 0.1	A
E00415	N02940	A	1.0 ± 0.1	1.2 ± 0.2
E00415	N02950	3.9 ± 2.5	1.2 ± 0.2	0.7 ± 0.3
E00415	N02960	A	1.1 ± 0.2	1.2 ± 0.2
E00415	N02970	A	1.0 ± 0.1	0.6 ± 0.2
E00415	N02980	A	0.6 ± 0.1	1.0 ± 0.2
E00415	N02990	A	1.7 ± 0.2	0.8 ± 0.2
E00415	N03000	A	0.9 ± 0.1	0.8 ± 0.2
E00415	N03010	A	1.6 ± 0.2	1.4 ± 0.3
E00415	N03020	A	1.3 ± 0.1	1.3 ± 0.3
E00415	N03030	A	1.7 ± 0.2	1.0 ± 0.2
E00415	N03040	A	1.4 ± 0.2	0.5 ± 0.3
E00415	N03050	A	1.6 ± 0.1	1.4 ± 0.2
E00415	N03060	A	1.5 ± 0.1	0.5 ± 0.2
E00415	N03070	A	0.9 ± 0.1	1.2 ± 0.2
E00415	N03080	A	1.2 ± 0.1	0.6 ± 0.3
E00415	N03090	A	2.3 ± 0.2	0.8 ± 0.2
E00415	N03100	2.2 ± 2.2	1.8 ± 0.2	1.1 ± 0.2
E00415	N03260	A	0.8 ± 0.1	1.1 ± 0.2
E00415	N03280	A	0.9 ± 0.1	0.5 ± 0.2
E00415	N03360	A	1.0 ± 0.1	A
E00415	N03380	0.3 ± 0.4	0.8 ± 0.1	1.1 ± 0.1
E00415	N03400	A	5.1 ± 0.3	0.4 ± 0.3
E00415	N03420	2.9 ± 0.7	1.0 ± 0.1	0.9 ± 0.1
E00415	N03440	A	1.0 ± 0.1	0.8 ± 0.2
E00415	N03460	A	3.6 ± 0.2	0.4 ± 0.4
E00415	N03480	A	1.2 ± 0.1	0.4 ± 0.2
E00415	N03500	A	1.0 ± 0.2	0.7 ± 0.3
E00415	N03520	A	1.0 ± 0.2	1.2 ± 0.3

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00415	N03540	A	1.0 ± 0.1	1.1 ± 0.2
E00415	N04040	A	1.4 ± 0.2	0.6 ± 0.2
E00415	N04060	A	1.1 ± 0.1	1.2 ± 0.2
E00415	N04080	0.5 ± 1.2	0.7 ± 0.1	0.5 ± 0.1
E00415	N04100	A	0.8 ± 0.1	0.9 ± 0.2
E00415	N04120	A	3.2 ± 0.2	1.1 ± 0.2
E00415	N04140	A	0.9 ± 0.1	1.3 ± 0.2
E00415	N04160	A	0.9 ± 0.1	1.3 ± 0.2
E00415	N04180	5.4 ± 2.6	1.7 ± 0.2	0.9 ± 0.2
E00415	N04200	2.4 ± 2.1	1.0 ± 0.1	0.8 ± 0.2
E00415	N04220	A	1.1 ± 0.1	0.8 ± 0.2
E00415	N04240	4.7 ± 1.9	0.7 ± 0.1	0.9 ± 0.3
E00415	N04260	A	1.0 ± 0.2	1.1 ± 0.2
E00415	N04280	A	0.9 ± 0.1	1.0 ± 0.2
E00415	N04300	A	1.4 ± 0.2	0.7 ± 0.2
E00415	N04320	0.7 ± 0.4	1.2 ± 0.1	0.8 ± 0.1
E00415	N04340	A	1.0 ± 0.1	1.2 ± 0.3
E00415	N04360	0.9 ± 0.1	1.3 ± 0.1	1.0 ± 0.1
E00415	N04380	A	1.2 ± 0.1	0.5 ± 0.2
E00415	N04400	A	4.2 ± 0.3	0.6 ± 0.2
E00415	N04420	A	6.4 ± 0.2	0.4 ± 0.1
E00415	N04440	0.8 ± 0.2	0.6 ± 0.1	0.7 ± 0.1
E00415	N04460	A	0.7 ± 0.1	0.7 ± 0.2
E00415	N04480	A	1.1 ± 0.1	1.1 ± 0.2
E00415	N04500	A	1.8 ± 0.2	0.9 ± 0.2
E00415	N04520	A	1.0 ± 0.1	0.6 ± 0.2
E00415	N04540	3.0 ± 2.3	1.0 ± 0.1	0.8 ± 0.2
E00415	N04560	A	0.7 ± 0.1	0.6 ± 0.3
E00415	N04580	4.0 ± 2.6	1.0 ± 0.2	0.9 ± 0.2
E00415	N04600	A	1.7 ± 0.1	1.2 ± 0.2
E00415	N04620	A	0.9 ± 0.1	0.5 ± 0.2
E00415	N04640	A	0.9 ± 0.1	1.1 ± 0.2
E00415	N04680	A	0.8 ± 0.1	0.7 ± 0.2
E00415	N04700	0.8 ± 0.1	0.8 ± 0.1	0.7 ± 0.1
E00415	N04720	0.2 ± 0.4	0.7 ± 0.1	0.7 ± 0.2
E00415	N04740	2.2 ± 0.6	1.1 ± 0.1	1.0 ± 0.1
E00415	N04760	1.3 ± 1.2	0.9 ± 0.1	1.9 ± 0.2
E00415	N04780	A	0.9 ± 0.1	0.7 ± 0.2
E00415	N04800	A	0.8 ± 0.1	0.9 ± 0.2
E00415	N04820	A	0.8 ± 0.1	0.8 ± 0.2
E00415	N04832	A	3.1 ± 0.2	0.8 ± 0.2
E00415	N04840	0.4 ± 0.4	0.9 ± 0.1	1.2 ± 0.2
E00415	N04860	0.7 ± 0.4	0.8 ± 0.1	0.6 ± 0.3

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00415	N04880	0.6 ± 0.5	1.4 ± 0.1	0.6 ± 0.3
E00415	N04990	A	3.9 ± 0.2	A
E00415	N05010	A	1.8 ± 0.2	A
E00415	N05030	A	4.2 ± 0.3	1.2 ± 0.3
E00415	N05050	A	4.6 ± 0.2	0.7 ± 0.2
E00415	N05070	A	2.3 ± 0.2	1.1 ± 0.2
E00415	N05090	A	8.8 ± 0.3	1.0 ± 0.2
E00415	N05110	A	0.7 ± 0.1	0.6 ± 0.1
E00415	N05130	A	1.3 ± 0.1	0.5 ± 0.2
E00415	N05150	A	1.2 ± 0.1	0.6 ± 0.2
E00415	N05170	A	2.8 ± 0.2	1.1 ± 0.2
E00415	N05190	A	5.7 ± 0.2	A
E00415	N05210	A	3.8 ± 0.4	A
E00415	N05230	A	1.6 ± 0.1	0.9 ± 0.2
E00415	N05250	A	1.9 ± 0.1	0.9 ± 0.2
E00415	N05270	A	1.6 ± 0.2	0.9 ± 0.2
E00415	N05290	A	1.1 ± 0.1	1.4 ± 0.2
E00415	N05310	A	1.7 ± 0.3	1.0 ± 0.3
E00415	N05330	A	1.0 ± 0.1	0.6 ± 0.1
E00415	N05350	A	1.5 ± 0.1	1.3 ± 0.2
E00415	N05370	A	1.7 ± 0.1	0.6 ± 0.2
E00415	N05390	A	1.4 ± 0.1	0.6 ± 0.1
E00415	N05410	A	0.9 ± 0.1	0.6 ± 0.2
E00415	N05430	A	0.9 ± 0.1	0.7 ± 0.2
E00415	N05450	A	0.7 ± 0.1	0.8 ± 0.2
E00415	N05470	A	1.3 ± 0.1	1.5 ± 0.1
E00415	N05490	A	0.8 ± 0.1	1.1 ± 0.2
E00415	N05510	A	0.7 ± 0.1	A
E00415	N05530	A	0.6 ± 0.1	0.5 ± 0.2
E00415	N05550	A	1.2 ± 0.1	0.4 ± 0.1
E00415	N05570	A	1.9 ± 0.2	0.8 ± 0.3
E00415	N05590	A	0.7 ± 0.1	0.7 ± 0.1
E00415	N05610	A	1.3 ± 0.1	0.7 ± 0.2
E00415	N05630	A	1.0 ± 0.1	0.7 ± 0.2
E00415	N05650	A	5.8 ± 0.3	0.9 ± 0.3
E00415	N05670	A	2.8 ± 0.2	1.1 ± 0.2
E00415	N05690	A	0.9 ± 0.1	1.1 ± 0.2
E00415	N05710	A	1.4 ± 0.2	0.7 ± 0.1
E00415	N05730	A	0.8 ± 0.1	1.0 ± 0.2
E00415	N05750	A	0.9 ± 0.1	0.6 ± 0.2
E00415	N05770	A	9.3 ± 0.3	0.9 ± 0.2
E00415	N05790	A	0.9 ± 0.1	A
E00415	N05800	A	1.2 ± 0.1	0.9 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00415	N05810	A	1.4 ± 0.1	0.9 ± 0.2
E00415	N05830	A	1.6 ± 0.1	1.0 ± 0.2
E00415	N05850	A	1.6 ± 0.2	0.9 ± 0.2
E00415	N05870	A	5.2 ± 0.3	0.6 ± 0.3
E00415	N05890	A	2.5 ± 0.2	1.4 ± 0.2
E00415	N05910	A	0.9 ± 0.1	0.9 ± 0.2
E00415	N05930	1.3 ± 1.1	3.5 ± 0.2	0.7 ± 0.2
E00415	N05950	A	1.1 ± 0.1	1.3 ± 0.2
E00415	N05970	A	0.9 ± 0.1	1.1 ± 0.1
E00415	N06700	A	2.2 ± 0.1	1.2 ± 0.2
E00415	N06720	A	1.0 ± 0.1	1.2 ± 0.2
E00415	N06740	A	0.5 ± 0.1	1.0 ± 0.2
E00415	N06760	A	1.1 ± 0.1	0.9 ± 0.2
E00415	N06780	A	1.0 ± 0.1	0.5 ± 0.1
E00415	N06800	A	0.9 ± 0.1	1.3 ± 0.2
E00415	N06820	A	1.1 ± 0.1	0.9 ± 0.2
E00415	N06840	A	1.0 ± 0.1	0.8 ± 0.1
E00415	N06860	A	1.0 ± 0.1	0.8 ± 0.2
E00415	N06880	A	0.8 ± 0.1	0.8 ± 0.2
E00415	N06900	A	0.8 ± 0.1	0.5 ± 0.1
E00415	N06920	A	0.8 ± 0.1	0.9 ± 0.2
E00415	N06940	A	1.4 ± 0.1	1.1 ± 0.2
E00415	N06960	A	0.7 ± 0.1	0.8 ± 0.2
E00415	N06980	A	3.1 ± 0.2	0.8 ± 0.3
E00415	N07000	A	0.6 ± 0.1	1.3 ± 0.2
E00416	N02885	A	1.2 ± 0.1	1.1 ± 0.2
E00418	N02585	A	0.6 ± 0.1	0.5 ± 0.2
E00418	N02668	A	1.0 ± 0.1	1.5 ± 0.3
E00418	N02808	2.1 ± 2.1	0.9 ± 0.1	1.1 ± 0.2
E00418	N02826	A	0.6 ± 0.2	0.4 ± 0.2
E00418	N02845	A	0.6 ± 0.1	1.2 ± 0.2
E00418	N02867	1.1 ± 0.5	0.8 ± 0.1	0.8 ± 0.1
E00419	N02568	A	0.7 ± 0.1	0.8 ± 0.2
E00419	N02786	A	0.8 ± 0.2	A
E00420	N02645	A	0.9 ± 0.1	0.9 ± 0.1
E00420	N02767	A	0.9 ± 0.1	0.6 ± 0.2
E00420	N04886	0.6 ± 0.1	0.8 ± 0.1	0.7 ± 0.1
E00420	N04896	0.3 ± 0.2	0.8 ± 0.1	0.7 ± 0.1
E00420	N04916	0.4 ± 0.2	0.9 ± 0.1	0.8 ± 0.1
E00420	N04936	0.4 ± 0.1	0.6 ± 0.1	0.8 ± 0.1
E00420	N04956	1.4 ± 0.1	0.9 ± 0.1	0.9 ± 0.1
E00420	N04980	A	0.9 ± 0.1	0.8 ± 0.2
E00420	N05000	A	1.9 ± 0.2	0.9 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00420	N05020	A	1.1 ± 0.1	A
E00420	N05040	A	23.5 ± 0.5	0.5 ± 0.4
E00420	N05060	A	3.2 ± 0.2	1.1 ± 0.2
E00420	N05080	A	5.5 ± 0.3	1.1 ± 0.2
E00420	N05100	A	5.9 ± 0.2	0.7 ± 0.2
E00420	N05110	A	1.6 ± 0.3	A
E00420	N05120	A	1.1 ± 0.1	0.7 ± 0.2
E00420	N05140	A	1.8 ± 0.1	0.8 ± 0.1
E00420	N05160	A	3.1 ± 0.2	0.6 ± 0.2
E00420	N05180	A	5.0 ± 0.2	1.1 ± 0.2
E00420	N05200	A	2.5 ± 0.1	0.9 ± 0.1
E00420	N05220	A	4.0 ± 0.4	0.3 ± 0.4
E00420	N05240	A	9.4 ± 0.3	1.0 ± 0.3
E00420	N05260	A	8.8 ± 0.3	A
E00420	N05280	A	3.6 ± 0.2	1.1 ± 0.2
E00420	N05300	A	0.7 ± 0.1	0.6 ± 0.2
E00420	N05320	A	1.3 ± 0.2	0.6 ± 0.2
E00420	N05340	A	2.3 ± 0.1	0.6 ± 0.2
E00420	N05360	A	4.0 ± 0.2	0.9 ± 0.2
E00420	N05380	A	2.0 ± 0.2	0.9 ± 0.2
E00420	N05400	A	10.0 ± 0.3	0.4 ± 0.2
E00420	N05420	A	2.2 ± 0.2	1.4 ± 0.2
E00420	N05440	A	3.9 ± 0.2	0.8 ± 0.2
E00420	N05460	A	5.4 ± 0.3	1.3 ± 0.2
E00420	N05480	A	2.7 ± 0.2	1.2 ± 0.2
E00420	N05500	A	8.8 ± 0.3	0.9 ± 0.2
E00420	N05520	A	2.2 ± 0.2	0.8 ± 0.2
E00420	N05540	A	4.2 ± 0.2	1.2 ± 0.3
E00420	N05560	A	1.1 ± 0.1	1.3 ± 0.2
E00420	N05580	A	8.7 ± 0.3	0.7 ± 0.2
E00420	N05600	A	4.9 ± 0.3	1.0 ± 0.2
E00420	N05620	A	10.0 ± 0.3	0.9 ± 0.2
E00420	N05640	A	1.2 ± 0.1	0.9 ± 0.3
E00420	N05660	A	2.6 ± 0.2	1.1 ± 0.2
E00420	N05680	A	3.8 ± 0.2	0.6 ± 0.2
E00420	N05700	A	3.8 ± 0.2	0.4 ± 0.2
E00420	N05720	A	2.0 ± 0.1	A
E00420	N05740	A	3.3 ± 0.2	A
E00420	N05760	A	1.6 ± 0.2	1.1 ± 0.2
E00420	N05780	A	2.4 ± 0.2	0.9 ± 0.2
E00420	N05800	1.9 ± 2.4	8.2 ± 0.3	1.5 ± 0.3
E00420	N05820	A	8.3 ± 0.3	A
E00420	N05840	A	6.5 ± 0.3	0.9 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00420	N05860	A	9.3 ± 0.3	0.4 ± 0.2
E00420	N05880	A	2.5 ± 0.2	1.1 ± 0.2
E00420	N05900	A	16.4 ± 0.5	A
E00420	N05920	A	11.5 ± 0.3	A
E00420	N05940	A	1.8 ± 0.1	1.1 ± 0.2
E00420	N05960	1.3 ± 1.2	3.6 ± 0.2	0.9 ± 0.2
E00420	N05980	A	7.9 ± 0.3	0.7 ± 0.2
E00420	N06000	A	8.5 ± 0.3	0.8 ± 0.2
E00420	N06020	2.4 ± 1.4	3.4 ± 0.2	1.2 ± 0.2
E00420	N06040	A	4.5 ± 0.3	1.1 ± 0.2
E00420	N06060	A	2.5 ± 0.2	A
E00420	N06080	A	2.3 ± 0.1	0.7 ± 0.2
E00420	N06100	A	0.8 ± 0.1	0.8 ± 0.2
E00420	N06120	A	6.0 ± 0.3	0.9 ± 0.2
E00420	N06140	A	1.7 ± 0.1	1.0 ± 0.2
E00420	N06160	A	1.0 ± 0.1	0.6 ± 0.1
E00420	N06180	2.5 ± 1.5	0.9 ± 0.2	1.1 ± 0.2
E00420	N06200	A	1.0 ± 0.1	1.0 ± 0.2
E00420	N06220	A	2.1 ± 0.2	0.5 ± 0.2
E00420	N06240	A	2.1 ± 0.1	0.9 ± 0.1
E00420	N06260	A	3.1 ± 0.2	A
E00420	N06280	A	3.9 ± 0.2	0.9 ± 0.2
E00420	N06300	A	0.9 ± 0.1	0.9 ± 0.2
E00420	N06320	A	8.7 ± 0.3	0.7 ± 0.3
E00420	N06340	A	0.8 ± 0.1	0.6 ± 0.1
E00420	N06360	A	1.3 ± 0.1	0.9 ± 0.1
E00420	N06380	A	3.2 ± 0.2	0.8 ± 0.2
E00420	N06400	A	1.1 ± 0.1	0.8 ± 0.2
E00420	N06420	A	13.8 ± 0.4	1.2 ± 0.2
E00420	N06440	A	12.4 ± 0.4	1.4 ± 0.3
E00420	N06460	A	2.1 ± 0.1	A
E00420	N06480	1.5 ± 1.8	1.0 ± 0.1	1.1 ± 0.2
E00420	N06500	A	1.2 ± 0.1	1.0 ± 0.2
E00420	N06520	A	8.9 ± 0.3	1.1 ± 0.2
E00420	N06540	A	3.8 ± 0.5	A
E00420	N06560	A	2.3 ± 0.2	0.8 ± 0.2
E00420	N06580	A	3.3 ± 0.2	0.8 ± 0.2
E00420	N06600	A	3.5 ± 0.2	0.7 ± 0.2
E00420	N06620	A	3.0 ± 0.2	0.7 ± 0.1
E00420	N06640	A	1.8 ± 0.1	0.5 ± 0.2
E00420	N06660	A	5.2 ± 0.2	1.3 ± 0.3
E00420	N06680	A	0.8 ± 0.1	0.4 ± 0.2
E00420	N07020	A	1.2 ± 0.1	0.7 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00420	N07040	A	3.1 ± 0.2	0.5 ± 0.2
E00420	N07060	A	1.1 ± 0.1	0.9 ± 0.2
E00420	N07080	A	0.8 ± 0.1	1.3 ± 0.2
E00420	N07100	A	0.9 ± 0.1	1.1 ± 0.2
E00420	N07120	A	1.0 ± 0.1	0.8 ± 0.1
E00420	N07140	A	1.5 ± 0.2	1.0 ± 0.2
E00420	N07160	A	1.6 ± 0.2	1.42 ± 0.3
E00420	N07180	A	1.2 ± 0.1	0.9 ± 0.2
E00420	N07200	A	0.9 ± 0.1	1.5 ± 0.2
E00420	N07220	A	0.8 ± 0.1	0.8 ± 0.2
E00420	N07240	A	1.1 ± 0.1	1.1 ± 0.2
E00420	N07260	A	2.1 ± 0.1	0.8 ± 0.2
E00420	N07280	A	1.3 ± 0.1	1.2 ± 0.2
E00420	N07300	A	2.2 ± 0.2	0.7 ± 0.1
E00420	N07320	A	1.1 ± 0.1	0.8 ± 0.2
E00420	N07340	1.6 ± 1.1	1.9 ± 0.1	1.0 ± 0.2
E00420	N07360	A	0.7 ± 0.1	0.3 ± 0.1
E00420	N07380	A	2.0 ± 0.1	0.8 ± 0.2
E00420	N07400	A	3.1 ± 0.2	A
E00420	N07420	A	0.8 ± 0.1	1.0 ± 0.2
E00420	N07440	A	2.0 ± 0.2	0.8 ± 0.2
E00420	N07460	A	0.7 ± 0.1	0.7 ± 0.1
E00420	N07480	A	0.8 ± 0.1	0.9 ± 0.1
E00420	N07500	A	4.9 ± 0.2	1.1 ± 0.2
E00420	N07520	A	1.1 ± 0.1	0.8 ± 0.2
E00420	N07540	A	1.0 ± 0.1	0.6 ± 0.2
E00420	N07560	A	0.9 ± 0.1	0.4 ± 0.1
E00420	N07580	A	1.6 ± 0.1	0.7 ± 0.2
E00420	N07600	A	4.6 ± 0.2	0.6 ± 0.2
E00420	N07620	A	1.0 ± 0.1	0.7 ± 0.2
E00420	N07640	A	0.8 ± 0.1	0.8 ± 0.2
E00420	N07660	A	1.1 ± 0.1	0.7 ± 0.1
E00420	N07680	A	0.9 ± 0.1	1.0 ± 0.1
E00420	N07700	A	1.0 ± 0.1	0.9 ± 0.1
E00420	N07720	A	1.0 ± 0.1	0.8 ± 0.1
E00420	N07740	A	1.3 ± 0.1	0.7 ± 0.2
E00420	N07760	A	1.9 ± 0.1	A
E00420	N07780	A	1.3 ± 0.1	1.6 ± 0.2
E00420	N07800	A	0.8 ± 0.1	0.9 ± 0.2
E00420	N07820	A	0.9 ± 0.1	0.8 ± 0.2
E00420	N07840	A	0.8 ± 0.1	0.8 ± 0.2
E00420	N07860	A	2.5 ± 0.2	1.1 ± 0.2
E00420	N07880	A	0.2 ± 0.1	A

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00420	N07900	A	0.8 ± 0.1	0.8 ± 0.2
E00420	N07920	A	2.6 ± 0.2	1.1 ± 0.2
E00420	N07940	A	4.1 ± 0.2	0.9 ± 0.2
E00420	N07960	A	2.0 ± 0.2	0.7 ± 0.2
E00420	N07980	A	4.2 ± 0.2	0.8 ± 0.2
E00420	N08000	A	3.1 ± 0.2	0.7 ± 0.2
E00420	N08020	A	5.4 ± 0.2	1.2 ± 0.2
E00420	N08040	1.6 ± 1.6	1.2 ± 0.1	0.7 ± 0.2
E00420	N08060	A	0.7 ± 0.3	1.3 ± 0.3
E00420	N08080	A	1.6 ± 0.1	1.2 ± 0.2
E00420	N08100	A	2.5 ± 0.7	1.7 ± 0.2
E00420	N08120	A	9.4 ± 0.4	A
E00420	N08140	A	23.6 ± 0.5	0.9 ± 0.3
E00420	N08160	A	2.6 ± 0.6	1.6 ± 0.4
E00420	N08180	A	22.8 ± 0.5	1.5 ± 0.4
E00420	N08200	A	12.9 ± 0.4	1.6 ± 0.4
E00420	N08220	A	3.0 ± 0.2	0.8 ± 0.2
E00420	N08240	A	2.9 ± 0.2	0.7 ± 0.2
E00420	N08260	A	2.3 ± 0.1	1.0 ± 0.2
E00420	N08280	A	0.9 ± 0.1	0.9 ± 0.2
E00420	N08300	34.6 ± 2.7	1.9 ± 0.1	1.0 ± 0.2
E00420	N08320	A	3.4 ± 0.2	1.4 ± 0.2
E00420	N08340	A	3.3 ± 0.2	1.0 ± 0.2
E00420	N08360	A	1.8 ± 0.1	1.3 ± 0.2
E00420	N08380	A	2.5 ± 0.1	1.1 ± 0.2
E00420	N08400	A	2.2 ± 0.2	1.0 ± 0.2
E00420	N08420	A	2.1 ± 0.1	0.8 ± 0.2
E00420	N08440	A	1.2 ± 0.1	1.2 ± 0.1
E00420	N08460	A	1.7 ± 0.1	0.9 ± 0.2
E00420	N08480	3.3 ± 1.8	2.9 ± 0.2	1.0 ± 0.2
E00420	N08500	A	8.6 ± 0.3	A
E00420	N08520	A	2.5 ± 0.2	0.8 ± 0.4
E00420	N08540	A	1.4 ± 0.1	0.7 ± 0.2
E00420	N08560	4.1 ± 1.6	0.9 ± 0.1	0.9 ± 0.2
E00420	N08580	2.5 ± 1.0	1.5 ± 0.1	0.7 ± 0.1
E00420	N08600	A	1.1 ± 0.1	0.7 ± 0.2
E00420	N08620	A	1.1 ± 0.1	0.8 ± 0.2
E00420	N08640	A	1.0 ± 0.1	0.8 ± 0.2
E00420	N08660	A	1.3 ± 0.1	1.3 ± 0.2
E00420	N08680	2.2 ± 1.4	1.1 ± 0.1	1.2 ± 0.2
E00420	N08700	A	15.0 ± 0.4	1.2 ± 0.3
E00420	N08720	A	0.9 ± 0.1	1.2 ± 0.2
E00420	N08740	A	1.8 ± 0.1	0.5 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00420	N08750	A	6.7 ± 0.3	0.8 ± 0.2
E00420	N08770	A	4.5 ± 0.3	1.5 ± 0.3
E00420	N08790	A	1.5 ± 0.1	0.5 ± 0.2
E00420	N08810	A	1.5 ± 0.1	1.0 ± 0.2
E00420	N08830	A	0.7 ± 0.1	0.5 ± 0.1
E00420	N08850	A	1.3 ± 0.1	1.4 ± 0.2
E00420	N08870	A	1.4 ± 0.1	1.2 ± 0.2
E00420	N08890	A	1.6 ± 0.1	0.9 ± 0.2
E00420	N08910	A	3.7 ± 0.2	0.9 ± 0.2
E00420	N08930	A	2.1 ± 0.2	1.0 ± 0.2
E00420	N08950	A	4.3 ± 0.2	0.8 ± 0.2
E00420	N08970	A	1.9 ± 0.2	1.4 ± 0.2
E00420	N08990	A	1.1 ± 0.1	1.1 ± 0.2
E00420	N09010	A	1.2 ± 0.1	0.8 ± 0.2
E00420	N09030	A	1.2 ± 0.2	1.1 ± 0.2
E00420	N09050	A	6.2 ± 0.3	1.3 ± 0.2
E00420	N09070	A	1.2 ± 0.1	1.6 ± 0.2
E00420	N09090	A	2.1 ± 0.2	1.2 ± 0.2
E00420	N09110	A	4.6 ± 0.2	0.5 ± 0.2
E00420	N09130	A	1.5 ± 0.1	0.9 ± 0.2
E00420	N09150	A	1.6 ± 0.1	1.0 ± 0.2
E00420	N09170	A	1.5 ± 0.1	1.5 ± 0.2
E00420	N09190	A	1.1 ± 0.1	1.2 ± 0.2
E00420	N09210	A	1.0 ± 0.1	0.9 ± 0.2
E00420	N09230	A	2.4 ± 0.2	A
E00420	N09250	A	1.1 ± 0.1	1.3 ± 0.2
E00420	N09260	A	1.6 ± 0.1	0.5 ± 0.2
E00420	N09280	A	1.1 ± 0.1	1.3 ± 0.2
E00420	N09300	A	1.1 ± 0.1	1.0 ± 0.2
E00420	N09320	A	3.4 ± 0.2	0.7 ± 0.2
E00420	N09340	A	2.0 ± 0.2	1.3 ± 0.2
E00420	N09360	A	1.7 ± 0.1	0.9 ± 0.2
E00420	N09380	A	3.0 ± 0.2	1.0 ± 0.2
E00420	N09400	A	3.0 ± 0.2	0.8 ± 0.2
E00420	N09420	A	1.2 ± 0.2	1.2 ± 0.2
E00420	N09440	A	1.8 ± 0.1	1.3 ± 0.1
E00420	N09460	A	0.9 ± 0.1	1.1 ± 0.2
E00420	N09480	A	1.5 ± 0.1	1.0 ± 0.1
E00420	N09500	A	1.4 ± 0.1	0.8 ± 0.2
E00420	N09560	A	1.5 ± 0.1	1.3 ± 0.2
E00420	N09620	A	5.1 ± 0.3	1.4 ± 0.3
E00420	N09640	A	5.2 ± 0.2	1.4 ± 0.2
E00420	N09650	A	2.1 ± 0.2	1.2 ± 0.3

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00420	N09670	A	8.5 ± 0.3	0.8 ± 0.2
E00420	N09690	A	6.3 ± 0.5	0.6 ± 0.2
E00420	N09710	A	1.5 ± 0.1	0.9 ± 0.2
E00421	N02548	0.6 ± 0.3	0.8 ± 0.1	1.2 ± 0.2
E00421	N02748	A	0.8 ± 0.1	1.0 ± 0.2
E00422	N02729	A	1.1 ± 0.2	1.2 ± 0.2
E00422	N03120	A	1.1 ± 0.1	1.0 ± 0.1
E00422	N03140	A	1.2 ± 0.2	1.2 ± 0.3
E00422	N03160	A	0.8 ± 0.1	1.2 ± 0.2
E00422	N03180	A	1.1 ± 0.2	1.0 ± 0.2
E00422	N03200	1.7 ± 0.6	0.9 ± 0.1	0.9 ± 0.1
E00422	N03220	A	0.7 ± 0.1	0.8 ± 0.2
E00422	N03240	A	0.7 ± 0.1	A
E00422	N03560	A	0.7 ± 0.1	0.7 ± 0.2
E00422	N03580	A	0.9 ± 0.1	0.6 ± 0.2
E00422	N03600	A	2.7 ± 0.3	0.8 ± 0.2
E00422	N03620	A	0.6 ± 0.2	1.0 ± 0.2
E00422	N03640	2.7 ± 1.2	0.6 ± 0.1	0.7 ± 0.1
E00422	N03660	0.6 ± 0.3	0.7 ± 0.1	0.5 ± 0.2
E00422	N03680	2.3 ± 2.3	0.7 ± 0.2	0.9 ± 0.3
E00422	N03700	A	0.8 ± 0.1	1.8 ± 0.3
E00422	N03720	A	0.6 ± 0.1	0.6 ± 0.2
E00422	N03740	A	1.1 ± 0.1	0.7 ± 0.2
E00422	N03760	A	0.8 ± 0.1	1.1 ± 0.2
E00422	N03780	A	1.0 ± 0.2	0.7 ± 0.2
E00422	N03800	A	1.5 ± 0.2	0.7 ± 0.2
E00422	N03820	A	1.1 ± 0.2	1.1 ± 0.2
E00422	N03840	A	0.9 ± 0.1	0.6 ± 0.2
E00422	N03860	A	0.6 ± 0.1	0.8 ± 0.1
E00422	N03880	A	0.6 ± 0.1	0.5 ± 0.2
E00422	N03900	A	1.0 ± 0.2	0.6 ± 0.3
E00422	N03920	A	0.7 ± 0.1	0.4 ± 0.1
E00422	N03940	A	1.1 ± 0.2	0.4 ± 0.2
E00422	N03960	1.5 ± 0.1	0.7 ± 0.1	1.1 ± 0.1
E00422	N09520	A	1.4 ± 0.1	1.1 ± 0.2
E00422	N09540	3.6 ± 1.8	1.6 ± 0.1	0.9 ± 0.2
E00422	N09580	A	2.4 ± 0.2	1.3 ± 0.2
E00422	N09600	A	2.1 ± 0.2	1.2 ± 0.2
E00423	N02530	A	9.9 ± 0.1	1.2 ± 0.2
E00424	N02607	A	0.9 ± 0.1	0.9 ± 0.2
E00424	N02625	A	0.9 ± 9.1	1.0 ± 0.3
E00424	N02709	A	1.0 ± 0.1	0.9 ± 0.2
E00424	N03315	A	1.1 ± 0.2	0.7 ± 0.3

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00424	N03335	3.2 ± 2.2	1.2 ± 0.1	0.7 ± 0.2
E00424	N03355	A	1.0 ± 0.1	0.7 ± 0.3
E00425	N02686	A	0.9 ± 0.1	0.9 ± 0.2
E00425	N03260	A	0.9 ± 0.1	0.9 ± 0.1
E00425	N03280	A	0.7 ± 0.1	0.6 ± 0.2
E00425	N03360	A	0.8 ± 0.2	0.6 ± 0.3
E00425	N03380	A	0.9 ± 0.1	1.1 ± 0.2
E00425	N03400	A	0.9 ± 0.1	1.1 ± 0.3
E00425	N03420	A	1.0 ± 0.1	0.8 ± 0.2
E00425	N03440	0.7 ± 0.1	0.9 ± 0.1	0.9 ± 0.1
E00425	N03460	A	0.9 ± 0.2	0.5 ± 0.3
E00425	N03480	1.4 ± 0.1	0.8 ± 0.1	1.1 ± 0.1
E00425	N03500	A	0.9 ± 0.1	1.1 ± 0.2
E00425	N03520	A	0.6 ± 0.1	0.4 ± 0.3
E00425	N03540	0.5 ± 0.1	0.7 ± 0.1	0.8 ± 0.1
E00425	N04020	A	1.0 ± 0.1	1.2 ± 0.2
E00425	N04040	A	4.7 ± 0.3	1.2 ± 0.2
E00425	N04080	A	0.9 ± 0.1	0.7 ± 0.2
E00425	N04100	A	0.8 ± 0.1	1.0 ± 0.2
E00425	N04120	1.1 ± 0.4	0.9 ± 0.1	0.8 ± 0.1
E00425	N04140	A	0.9 ± 0.1	1.2 ± 0.2
E00425	N04160	A	0.9 ± 0.1	0.7 ± 0.2
E00425	N04180	A	0.5 ± 0.1	0.9 ± 0.2
E00425	N04200	A	0.7 ± 0.1	0.8 ± 0.2
E00425	N04220	A	0.9 ± 0.1	1.4 ± 0.2
E00425	N04240	A	0.7 ± 0.1	0.6 ± 0.2
E00425	N04260	A	0.9 ± 0.1	0.8 ± 0.1
E00425	N04280	A	0.8 ± 0.1	0.9 ± 0.2
E00425	N04300	A	1.0 ± 0.1	1.2 ± 0.2
E00425	N04320	A	0.8 ± 0.1	1.0 ± 0.2
E00425	N04340	A	0.7 ± 0.2	0.6 ± 0.2
E00425	N04360	2.2 ± 1.2	0.8 ± 0.1	0.9 ± 0.2
E00425	N04380	A	0.6 ± 0.1	1.1 ± 0.1
E00425	N04400	A	0.7 ± 0.1	0.5 ± 0.2
E00425	N04420	2.3 ± 1.8	1.0 ± 0.2	0.7 ± 0.2
E00425	N04440	A	1.1 ± 0.1	1.0 ± 0.2
E00425	N04460	A	0.9 ± 0.1	1.2 ± 0.2
E00425	N04480	A	0.8 ± 0.1	1.0 ± 0.2
E00425	N04500	A	0.9 ± 0.1	0.7 ± 0.2
E00425	N04520	A	0.8 ± 0.2	1.2 ± 0.2
E00425	N04540	A	0.9 ± 0.1	0.8 ± 0.2
E00425	N04560	A	0.9 ± 0.1	0.8 ± 0.2
E00425	N04580	A	0.7 ± 0.1	0.7 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00425	N04600	A	1.4 ± 0.2	0.8 ± 0.3
E00425	N04620	A	1.2 ± 0.2	0.9 ± 0.4
E00425	N04640	A	0.7 ± 0.1	0.5 ± 0.2
E00425	N04660	A	1.0 ± 0.1	0.9 ± 0.2
E00425	N04680	0.6 ± 0.3	0.6 ± 0.1	0.7 ± 0.2
E00425	N04700	A	1.0 ± 0.1	1.1 ± 0.2
E00425	N04720	3.6 ± 0.8	2.6 ± 0.1	2.6 ± 0.2
E00425	N04740	A	0.5 ± 0.1	0.7 ± 0.3
E00425	N04760	A	0.7 ± 0.1	0.7 ± 0.2
E00425	N04780	A	0.8 ± 0.1	0.8 ± 0.2
E00425	N04800	0.3 ± 0.1	1.2 ± 0.1	0.8 ± 0.2
E00425	N04832	A	1.0 ± 0.1	1.0 ± 0.2
E00425	N04840	A	0.8 ± 0.1	0.5 ± 0.3
E00425	N04860	0.5 ± 0.2	1.2 ± 0.1	0.8 ± 0.1
E00425	N04880	A	1.0 ± 0.1	0.7 ± 0.2
E00428	N02585	A	0.7 ± 0.2	A
E00428	N02668	A	1.1 ± 0.1	1.0 ± 0.3
E00429	N02568	0.7 ± 1.1	1.1 ± 0.1	0.9 ± 0.2
E00430	N02645	A	0.7 ± 0.1	0.6 ± 0.1
E00431	N02548	A	0.8 ± 0.1	1.0 ± 0.2
E00433	N02530	A	0.8 ± 0.1	1.0 ± 0.2
E00434	N02607	A	0.8 ± 0.1	1.1 ± 0.2
E00434	N02625	A	0.9 ± 0.1	1.0 ± 0.1
E00435	N04832	A	1.1 ± 0.2	0.9 ± 0.2
E00438	N02585	3.0 ± 1.9	0.8 ± 0.1	0.9 ± 0.2
E00439	N02568	A	0.6 ± 0.1	0.8 ± 0.2
E00440	N02300	4.7 ± 2.7	1.9 ± 0.2	1.1 ± 0.2
E00440	N02380	A	1.8 ± 0.1	0.9 ± 0.1
E00440	N02400	A	0.8 ± 0.1	1.0 ± 0.1
E00440	N02410	1.5 ± 0.9	1.0 ± 0.1	1.0 ± 0.2
E00440	N02430	A	1.1 ± 0.1	0.9 ± 0.1
E00440	N02450	A	0.8 ± 0.1	0.9 ± 0.2
E00440	N02470	A	0.6 ± 0.1	A
E00440	N02480	A	0.9 ± 0.1	1.3 ± 0.2
E00440	N02942	A	2.6 ± 0.2	0.5 ± 0.2
E00440	N02945	0.7 ± 0.1	1.1 ± 0.1	A
E00441	N02360	A	1.2 ± 0.2	1.7 ± 0.3
E00441	N02548	0.5 ± 0.5	0.7 ± 0.1	1.0 ± 0.2
E00443	N02200	A	1.9 ± 0.2	1.0 ± 0.2
E00443	N02340	A	1.2 ± 0.2	0.9 ± 0.3
E00445	N02320	A	5.1 ± 0.3	1.2 ± 0.2
E00445	N02530	0.9 ± 0.1	0.9 ± 0.1	1.0 ± 0.1
E00445	N04832	2.2 ± 0.1	0.9 ± 0.1	0.9 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00448	N02220	A	2.9 ± 0.2	0.9 ± 0.2
E00448	N02240	A	0.9 ± 0.1	1.0 ± 0.7
E00450	N02260	A	0.9 ± 0.1	0.9 ± 0.2
E00450	N02280	A	2.1 ± 0.2	0.7 ± 0.3
E00450	N02300	A	0.5 ± 0.1	0.8 ± 0.2
E00450	N02400	A	1.0 ± 0.1	0.8 ± 0.1
E00450	N02410	A	1.0 ± 0.1	1.1 ± 0.2
E00450	N02430	A	0.8 ± 0.1	0.6 ± 0.1
E00450	N02450	A	0.8 ± 0.1	0.7 ± 0.2
E00450	N02470	1.7 ± 1.8	0.5 ± 0.1	A
E00450	N02480	A	1.0 ± 0.1	1.8 ± 0.3
E00451	N02360	1.2 ± 0.8	0.8 ± 0.1	0.5 ± 0.1
E00453	N02200	A	1.1 ± 0.2	1.0 ± 0.2
E00453	N02240	A	1.0 ± 0.1	0.7 ± 0.2
E00455	N02320	A	0.7 ± 0.2	0.5 ± 0.2
E00455	N04832	A	0.8 ± 0.1	0.6 ± 0.2
E00458	N02220	A	0.8 ± 0.1	0.8 ± 0.2
E00458	N02240	1.3 ± 0.1	1.0 ± 0.1	0.9 ± 0.1
E00459	N02180	A	1.1 ± 0.1	1.2 ± 0.3
E00460	N02260	A	1.1 ± 0.2	1.2 ± 0.2
E00460	N02280	4.8 ± 0.6	1.0 ± 0.1	0.9 ± 0.1
E00460	N02380	A	1.6 ± 0.2	0.9 ± 0.2
E00460	N02400	A	1.1 ± 0.1	1.0 ± 0.1
E00460	N02410	A	1.0 ± 0.1	1.2 ± 0.2
E00460	N02430	A	0.8 ± 0.1	0.9 ± 0.2
E00460	N02450	A	1.1 ± 0.1	1.0 ± 0.3
E00460	N02470	A	0.7 ± 0.1	0.6 ± 0.1
E00460	N02480	A	0.9 ± 0.1	0.7 ± 0.2
E00460	N02940	A	0.5 ± 0.1	0.8 ± 0.1
E00460	N02943	0.7 ± 0.3	0.6 ± 0.1	0.5 ± 0.1
E00461	N02140	A	0.9 ± 0.2	0.6 ± 0.2
E00461	N02160	A	1.0 ± 0.1	1.0 ± 0.2
E00461	N02360	A	1.0 ± 0.1	0.9 ± 0.2
E00463	N02120	0.8 ± 0.4	1.2 ± 0.1	0.8 ± 0.1
E00463	N02200	A	1.1 ± 0.1	1.3 ± 0.2
E00463	N02340	A	0.9 ± 0.1	1.1 ± 0.2
E00465	N02320	A	0.7 ± 0.1	1.0 ± 0.3
E00465	N04832	A	0.7 ± 0.1	0.4 ± 0.2
E00466	N02100	A	0.9 ± 0.1	0.7 ± 0.1
E00468	N02220	A	1.0 ± 0.1	0.7 ± 0.2
E00468	N02240	A	1.0 ± 0.1	0.5 ± 0.2
E00469	N02180	1.7 ± 0.5	1.1 ± 0.1	1.0 ± 0.2
E00470	N02060	A	2.4 ± 0.2	1.4 ± 0.3

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00470	N02080	A	0.8 ± 0.1	0.5 ± 0.2
E00470	N02260	A	2.0 ± 0.2	0.5 ± 0.2
E00470	N02280	A	0.9 ± 0.2	0.6 ± 0.2
E00470	N02300	A	3.0 ± 0.2	0.7 ± 0.3
E00471	N02140	A	1.1 ± 0.2	0.9 ± 0.2
E00471	N02160	A	1.0 ± 0.2	1.0 ± 0.2
E00472	N02040	A	1.3 ± 0.2	1.0 ± 0.2
E00473	N02020	2.2 ± 1.7	1.6 ± 0.1	1.0 ± 0.2
E00473	N02120	A	1.4 ± 0.2	0.7 ± 0.2
E00476	N02000	A	1.4 ± 0.2	0.3 ± 0.5
E00476	N02100	6.6 ± 2.5	1.2 ± 0.2	0.8 ± 0.2
E00478	N01820	A	1.1 ± 0.1	0.9 ± 0.1
E00478	N01840	A	1.4 ± 0.1	0.8 ± 0.1
E00479	N02180	A	1.0 ± 0.1	1.1 ± 0.2
E00480	N00560	0.6 ± 0.4	0.7 ± 0.1	1.1 ± 0.2
E00480	N00580	1.3 ± 0.1	0.7 ± 0.1	0.7 ± 0.1
E00480	N00600	A	1.2 ± 0.1	0.7 ± 0.2
E00480	N00620	0.3 ± 0.2	1.4 ± 0.1	1.0 ± 0.1
E00480	N00640	1.8 ± 1.1	0.8 ± 0.1	0.8 ± 0.1
E00480	N00660	A	1.3 ± 0.3	1.2 ± 0.3
E00480	N00680	A	0.8 ± 0.1	1.3 ± 0.2
E00480	N00700	2.1 ± 0.7	1.4 ± 0.1	1.1 ± 0.1
E00480	N00720	0.7 ± 0.1	1.0 ± 0.1	0.9 ± 0.1
E00480	N00740	A	0.9 ± 0.1	0.7 ± 0.2
E00480	N00760	0.4 ± 0.1	0.9 ± 0.1	0.9 ± 0.1
E00480	N00780	0.3 ± 0.5	0.9 ± 0.1	2.1 ± 0.2
E00480	N00800	0.3 ± 0.2	1.2 ± 0.1	1.2 ± 0.1
E00480	N00820	A	4.0 ± 0.2	0.6 ± 0.5
E00480	N00840	2.3 ± 0.6	1.8 ± 0.2	1.2 ± 0.2
E00480	N00860	2.8 ± 0.7	0.9 ± 0.1	0.7 ± 0.2
E00480	N00880	0.7 ± 0.2	1.1 ± 0.1	1.1 ± 0.1
E00480	N00900	0.3 ± 0.2	1.0 ± 0.1	1.0 ± 0.1
E00480	N00920	A	0.9 ± 0.2	1.3 ± 0.2
E00480	N00940	A	1.1 ± 0.1	1.3 ± 0.2
E00480	N00960	0.4 ± 0.2	0.9 ± 0.1	0.9 ± 0.1
E00480	N00980	0.6 ± 0.2	0.8 ± 0.1	0.8 ± 0.1
E00480	N01000	0.2 ± 0.2	1.0 ± 0.1	0.8 ± 0.1
E00480	N01020	0.1 ± 0.2	2.4 ± 0.1	0.8 ± 0.1
E00480	N01040	0.9 ± 0.7	1.2 ± 0.1	1.5 ± 0.2
E00480	N01060	A	0.7 ± 0.1	0.4 ± 0.3
E00480	N01080	A	0.7 ± 0.1	0.7 ± 0.1
E00480	N01100	A	1.1 ± 0.1	0.8 ± 0.2
E00480	N01120	0.7 ± 0.2	1.4 ± 0.1	1.0 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00480	N01140	A	0.9 ± 0.1	1.0 ± 0.2
E00480	N01160	1.2 ± 0.4	0.7 ± 0.1	0.4 ± 0.1
E00480	N01180	A	0.9 ± 0.1	1.2 ± 0.3
E00480	N01200	A	1.1 ± 0.1	0.7 ± 0.2
E00480	N01220	0.4 ± 0.1	0.7 ± 0.1	0.7 ± 0.1
E00480	N01240	0.3 ± 0.5	1.2 ± 0.1	0.6 ± 0.3
E00480	N01280	1.3 ± 0.2	1.1 ± 0.1	1.2 ± 0.1
E00480	N01300	A	0.6 ± 0.2	0.7 ± 0.3
E00480	N01320	0.3 ± 0.3	0.8 ± 0.1	1.0 ± 0.1
E00480	N01340	A	1.2 ± 0.1	0.9 ± 0.2
E00480	N01360	0.3 ± 0.4	0.5 ± 0.1	0.5 ± 0.2
E00480	N01380	A	7.0 ± 0.3	1.0 ± 0.3
E00480	N01400	A	0.8 ± 0.1	0.7 ± 0.1
E00480	N01420	1.7 ± 0.2	1.0 ± 0.1	0.8 ± 0.1
E00480	N01440	0.9 ± 0.1	0.8 ± 0.1	0.8 ± 0.1
E00480	N01460	A	0.9 ± 0.1	0.6 ± 0.2
E00480	N01480	A	0.7 ± 0.1	1.3 ± 0.2
E00480	N01500	2.9 ± 1.3	2.2 ± 0.1	0.9 ± 0.1
E00480	N01520	5.1 ± 0.8	1.2 ± 0.1	1.3 ± 0.2
E00480	N01540	A	1.2 ± 0.1	0.8 ± 0.2
E00480	N01560	A	0.8 ± 0.1	0.8 ± 0.2
E00480	N01580	0.2 ± 0.2	1.1 ± 0.1	1.1 ± 0.1
E00480	N01600	0.6 ± 0.2	0.8 ± 0.1	0.7 ± 0.1
E00480	N01620	0.8 ± 0.5	0.9 ± 0.2	1.5 ± 0.4
E00480	N01640	0.1 ± 0.2	1.1 ± 0.1	1.4 ± 0.2
E00480	N01700	3.3 ± 0.6	0.8 ± 0.1	1.1 ± 0.1
E00480	N01720	A	0.7 ± 0.1	0.9 ± 0.2
E00480	N01740	0.2 ± 0.5	0.6 ± 0.1	A
E00480	N01760	1.8 ± 0.2	0.9 ± 0.1	1.1 ± 0.1
E00480	N01780	A	1.3 ± 0.1	1.0 ± 0.2
E00480	N01800	0.1 ± 0.2	0.8 ± 0.1	0.7 ± 0.1
E00480	N01860	A	2.3 ± 0.1	0.6 ± 0.3
E00480	N01880	A	1.2 ± 0.1	1.1 ± 0.2
E00480	N01910	A	2.3 ± 0.3	1.2 ± 0.3
E00480	N02060	6.0 ± 0.1	2.3 ± 0.2	0.9 ± 0.2
E00480	N02080	6.6 ± 3.6	2.0 ± 0.3	A
E00480	N02942	A	0.8 ± 0.1	0.5 ± 0.1
E00480	N02945	A	0.7 ± 0.1	0.7 ± 0.2
E00481	N01895	A	1.1 ± 0.1	0.9 ± 0.2
E00481	N02140	0.1 ± 0.1	1.0 ± 0.1	1.0 ± 0.1
E00481	N02160	A	1.1 ± 0.2	0.2 ± 0.4
E00482	N02040	A	0.9 ± 0.1	1.1 ± 0.2
E00483	N02020	A	1.0 ± 0.1	1.2 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00483	N02120	A	1.0 ± 0.1	0.8 ± 0.2
E00485	N04832	A	0.7 ± 0.1	0.7 ± 0.2
E00486	N02000	A	1.1 ± 0.1	1.5 ± 0.2
E00486	N02100	A	0.9 ± 0.1	0.4 ± 0.2
E00488	N01820	A	1.5 ± 0.1	1.0 ± 0.2
E00488	N01840	A	1.3 ± 0.1	1.0 ± 0.1
E00490	N00560	0.7 ± 0.2	0.9 ± 0.1	1.0 ± 0.1
E00490	N00580	1.7 ± 0.4	0.7 ± 0.1	0.7 ± 0.2
E00490	N00600	0.7 ± 0.6	0.8 ± 0.1	1.0 ± 0.2
E00490	N00620	A	1.9 ± 0.1	0.8 ± 0.2
E00490	N00640	3.0 ± 2.2	0.9 ± 0.1	1.0 ± 0.2
E00490	N00660	A	2.4 ± 0.2	1.1 ± 0.2
E00490	N00680	1.4 ± 0.4	2.0 ± 0.2	0.6 ± 0.2
E00490	N00700	2.4 ± 0.2	1.2 ± 0.1	1.0 ± 0.1
E00490	N00720	0.1 ± 0.2	1.9 ± 0.1	0.9 ± 0.1
E00490	N00740	0.6 ± 0.5	1.3 ± 0.1	0.8 ± 0.2
E00490	N00760	1.7 ± 0.2	1.3 ± 0.1	0.8 ± 0.1
E00490	N00780	1.4 ± 0.7	4.0 ± 0.2	0.4 ± 0.4
E00490	N00800	1.9 ± 0.2	1.0 ± 0.1	1.0 ± 0.1
E00490	N00820	1.5 ± 0.3	6.0 ± 0.1	0.9 ± 0.1
E00490	N00840	0.2 ± 0.4	0.4 ± 0.1	0.9 ± 0.2
E00490	N00860	1.7 ± 0.3	0.9 ± 0.1	1.4 ± 0.3
E00490	N00880	1.1 ± 0.4	1.1 ± 0.1	0.1 ± 0.2
E00490	N00900	A	4.9 ± 0.2	0.6 ± 0.3
E00490	N00920	0.1 ± 0.4	5.9 ± 0.1	0.8 ± 0.1
E00490	N00940	0.6 ± 0.2	0.8 ± 0.1	0.8 ± 0.1
E00490	N00960	0.9 ± 0.1	0.8 ± 0.1	0.8 ± 0.1
E00490	N00980	A	1.1 ± 0.1	0.9 ± 0.3
E00490	N01000	1.9 ± 0.4	0.8 ± 0.1	1.0 ± 0.2
E00490	N01020	0.8 ± 0.2	1.1 ± 0.1	0.6 ± 0.1
E00490	N01040	A	1.3 ± 0.1	0.6 ± 0.2
E00490	N01060	1.9 ± 0.4	0.7 ± 0.1	0.8 ± 0.2
E00490	N01080	0.9 ± 0.8	9.6 ± 0.3	0.7 ± 0.2
E00490	N01100	0.6 ± 0.9	24.3 ± 0.5	A
E00490	N01120	0.8 ± 0.3	9.4 ± 0.1	0.8 ± 0.1
E00490	N01140	A	1.6 ± 0.2	1.6 ± 0.3
E00490	N01160	A	1.4 ± 0.1	0.9 ± 0.2
E00490	N01180	4.1 ± 0.2	3.2 ± 0.1	0.8 ± 0.1
E00490	N01220	2.5 ± 0.2	1.9 ± 0.1	0.8 ± 0.1
E00490	N01240	1.6 ± 0.2	0.6 ± 0.1	0.5 ± 0.2
E00490	N01260	A	17.1 ± 0.6	0.9 ± 0.5
E00490	N01280	0.7 ± 0.3	0.7 ± 0.1	0.9 ± 0.2
E00490	N01300	0.4 ± 0.5	1.1 ± 0.1	1.6 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00490	N01320	A	0.9 ± 0.2	1.5 ± 0.2
E00490	N01340	0.3 ± 0.2	0.9 ± 0.1	1.0 ± 0.1
E00490	N01360	0.5 ± 0.2	0.8 ± 0.1	0.9 ± 0.1
E00490	N01380	A	0.8 ± 0.1	0.7 ± 0.2
E00490	N01400	0.6 ± 0.3	0.7 ± 0.1	0.8 ± 0.2
E00490	N01420	2.8 ± 0.5	0.9 ± 0.1	0.9 ± 0.1
E00490	N01440	A	1.0 ± 0.1	0.8 ± 0.2
E00490	N01460	1.5 ± 0.2	0.9 ± 0.1	0.9 ± 0.1
E00490	N01480	1.3 ± 0.1	0.7 ± 0.1	0.7 ± 0.1
E00490	N01500	A	0.5 ± 0.1	0.7 ± 0.2
E00490	N01520	0.1 ± 0.1	0.8 ± 0.1	0.7 ± 0.1
E00490	N01540	0.7 ± 0.2	1.0 ± 0.1	1.1 ± 0.1
E00490	N01560	A	1.0 ± 0.1	1.2 ± 0.2
E00490	N01580	A	1.2 ± 0.1	0.7 ± 0.1
E00490	N01600	0.8 ± 0.1	0.8 ± 0.1	0.7 ± 0.1
E00490	N01620	1.9 ± 0.4	0.6 ± 0.2	1.3 ± 0.2
E00490	N01640	A	0.7 ± 0.1	1.5 ± 0.2
E00490	N01660	A	0.8 ± 0.2	0.9 ± 0.2
E00490	N01680	A	1.0 ± 0.1	0.9 ± 0.2
E00490	N01700	0.4 ± 0.2	0.6 ± 0.1	0.7 ± 0.1
E00490	N01720	0.2 ± 0.6	0.8 ± 0.1	0.9 ± 0.2
E00490	N01740	1.8 ± 0.5	1.0 ± 0.1	1.3 ± 0.2
E00490	N01760	A	1.1 ± 0.1	0.5 ± 0.1
E00490	N01780	4.3 ± 0.8	2.2 ± 0.1	1.2 ± 0.1
E00490	N01800	0.4 ± 0.6	0.7 ± 0.1	0.3 ± 0.2
E00490	N01880	A	1.7 ± 0.2	0.9 ± 0.2
E00490	N01900	A	1.0 ± 0.1	1.1 ± 0.2
E00490	N01920	2.5 ± 2.2	0.9 ± 0.2	A
E00490	N02060	A	1.3 ± 0.2	1.1 ± 0.3
E00490	N02080	A	0.9 ± 0.1	0.8 ± 0.2
E00492	N02040	A	0.8 ± 0.1	1.3 ± 0.2
E00493	N02020	A	3.2 ± 0.2	0.9 ± 0.2
E00495	N01895	A	1.2 ± 0.1	1.6 ± 0.3
E00496	N01860	A	2.2 ± 0.2	1.3 ± 0.3
E00496	N01880	A	2.4 ± 0.1	0.8 ± 0.1
E00496	N02000	5.3 ± 3.1	1.0 ± 0.2	1.3 ± 0.3
E00497	N01840	A	0.6 ± 0.1	0.8 ± 0.1
E00500	N00560	1.7 ± 0.5	2.4 ± 0.2	1.1 ± 0.3
E00500	N00580	0.6 ± 0.2	1.7 ± 0.1	1.0 ± 0.1
E00500	N00600	3.3 ± 0.4	1.5 ± 0.1	1.0 ± 0.1
E00500	N00640	A	A	0.8 ± 0.4
E00500	N00660	0.1 ± 0.3	6.5 ± 0.1	0.9 ± 0.1
E00500	N00680	0.2 ± 0.1	3.5 ± 0.1	1.1 ± 0.1

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00500	N00700	0.1 ± 0.1	4.4 ± 0.1	1.2 ± 0.1
E00500	N00720	A	5.5 ± 0.2	0.6 ± 0.5
E00500	N00740	0.1 ± 0.3	1.0 ± 0.1	1.0 ± 0.1
E00500	N00760	0.7 ± 0.1	1.1 ± 0.1	0.8 ± 0.1
E00500	N00780	0.2 ± 0.6	1.8 ± 0.1	0.8 ± 0.2
E00500	N00800	A	1.4 ± 0.1	A
E00500	N00820	0.2 ± 0.6	2.5 ± 0.2	1.1 ± 0.2
E00500	N00840	A	6.6 ± 0.3	0.6 ± 0.3
E00500	N00860	1.1 ± 0.2	1.9 ± 0.1	1.0 ± 0.9
E00500	N00880	0.1 ± 0.3	1.8 ± 1.0	1.1 ± 0.1
E00500	N00900	2.3 ± 0.7	2.6 ± 0.1	1.0 ± 0.1
E00500	N00920	A	3.9 ± 0.2	1.0 ± 0.2
E00500	N00940	A	8.7 ± 0.3	0.7 ± 0.2
E00500	N00960	1.6 ± 0.6	1.7 ± 0.1	0.7 ± 0.1
E00500	N00980	A	1.8 ± 0.2	0.7 ± 0.2
E00500	N01000	0.3 ± 0.2	2.0 ± 0.1	1.0 ± 0.1
E00500	N01020	A	4.4 ± 0.2	1.3 ± 0.2
E00500	N01040	A	4.9 ± 0.2	0.5 ± 0.3
E00500	N01060	2.2 ± 0.3	7.0 ± 0.1	1.1 ± 0.1
E00500	N01080	0.1 ± 0.2	2.6 ± 0.1	1.0 ± 0.1
E00500	N01100	A	3.3 ± 0.2	1.4 ± 0.3
E00500	N01120	0.1 ± 0.2	1.5 ± 0.1	0.9 ± 0.1
E00500	N01140	A	1.7 ± 0.1	1.0 ± 0.1
E00500	N01160	2.8 ± 0.7	2.5 ± 0.1	1.1 ± 0.1
E00500	N01180	A	2.6 ± 0.2	1.0 ± 0.3
E00500	N01200	0.6 ± 0.1	6.4 ± 0.1	1.1 ± 0.1
E00500	N01220	1.2 ± 0.1	2.7 ± 0.1	0.9 ± 0.1
E00500	N01240	2.0 ± 0.1	2.4 ± 0.1	1.0 ± 0.1
E00500	N01260	0.3 ± 0.4	0.8 ± 0.1	0.7 ± 0.2
E00500	N01280	A	6.0 ± 0.3	0.7 ± 0.3
E00500	N01300	2.9 ± 0.6	3.4 ± 0.2	0.9 ± 0.2
E00500	N01320	A	3.4 ± 0.2	0.8 ± 0.3
E00500	N01340	0.2 ± 0.2	3.6 ± 0.1	1.0 ± 0.1
E00500	N01360	0.4 ± 0.2	1.0 ± 0.1	1.0 ± 0.1
E00500	N01380	A	1.2 ± 0.2	1.6 ± 0.4
E00500	N01400	A	2.8 ± 0.1	1.1 ± 0.1
E00500	N01420	A	11.9 ± 0.4	0.8 ± 0.2
E00500	N01440	A	4.9 ± 0.2	0.5 ± 0.3
E00500	N01460	0.5 ± 0.4	1.8 ± 0.1	A
E00500	N01480	A	4.7 ± 0.2	0.9 ± 0.3
E00500	N01500	0.2 ± 0.3	11.9 ± 0.1	0.9 ± 0.1
E00500	N01520	1.1 ± 0.3	3.5 ± 0.1	0.9 ± 0.1
E00500	N01540	A	2.3 ± 0.2	1.1 ± 0.3

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
E00500	N01560	0.2 ± 0.3	16.5 ± 0.2	0.8 ± 0.1
E00500	N01580	A	16.8 ± 0.2	1.1 ± 0.1
E00500	N01600	1.2 ± 0.3	19.5 ± 0.2	0.9 ± 0.2
E00500	N01620	0.1 ± 0.3	2.4 ± 0.1	1.0 ± 0.1
E00500	N01640	A	1.1 ± 0.1	1.5 ± 0.2
E00500	N01660	A	0.8 ± 0.1	0.7 ± 0.2
E00500	N01680	0.5 ± 0.2	0.7 ± 0.1	0.8 ± 0.2
E00500	N01700	A	2.2 ± 0.2	1.5 ± 0.3
E00500	N01720	A	1.1 ± 0.2	1.0 ± 0.2
E00500	N01740	A	1.6 ± 0.1	0.3 ± 0.2
E00500	N01780	A	1.3 ± 0.1	0.7 ± 0.2
E00500	N01820	A	14.0 ± 1.2	15.4 ± 2.0
E00500	N01930	A	3.8 ± 0.4	A
E00500	N02940	0.8 ± 0.4	0.8 ± 0.1	0.9 ± 0.2
E00500	N02943	A	0.9 ± 0.1	0.7 ± 0.1
E00520	N02942	3.1 ± 2.2	1.0 ± 0.2	0.8 ± 0.2
E00520	N02945	A	0.8 ± 0.1	0.7 ± 0.1
E00540	N02940	A	0.8 ± 0.1	0.9 ± 0.6
E00540	N02943	A	1.0 ± 0.1	0.6 ± 0.2
W00010	N09980	A	1.5 ± 0.1	1.0 ± 0.3
W00040	N09980	A	1.1 ± 0.1	1.4 ± 0.2
W00055	N09980	A	0.9 ± 0.1	1.0 ± 0.2
W00080	N09980	A	0.9 ± 0.1	1.2 ± 0.3
W00100	N09980	A	1.6 ± 0.1	1.1 ± 0.2
W00120	N09980	A	10.1 ± 0.3	1.1 ± 0.3
W00140	N09980	A	1.1 ± 0.1	0.8 ± 0.2
W00150	N09990	A	1.5 ± 0.2	0.5 ± 0.2
W00160	N09980	A	1.2 ± 0.1	0.8 ± 0.2
W00160	N10000	A	2.0 ± 0.2	1.0 ± 0.2
W00170	N09990	A	1.5 ± 0.2	1.2 ± 02
W00170	N10010	A	2.4 ± 0.2	1.0 ± 0.1
W00180	N09980	A	0.8 ± 0.1	0.9 ± 0.2
W00180	N10000	A	2.2 ± 0.2	A
W00190	N09990	A	2.2 ± 0.2	0.8 ± 0.2
W00190	N10010	A	1.3 ± 0.1	0.8 ± 0.2
W00200	N09980	A	1.7 ± 0.1	1.2 ± 0.2
W00200	N10000	A	1.7 ± 0.2	1.4 ± 0.2
W00200	N10020	2.3 ± 1.8	2.0 ± 0.1	0.8 ± 0.2
W00210	N09990	A	1.0 ± 0.1	1.0 ± 0.2
W00210	N10010	A	1.9 ± 0.2	0.5 ± 0.2
W00220	N09980	10.4 ± 2.4	1.0 ± 0.1	1.0 ± 0.2
W00220	N10000	A	4.1 ± 0.2	0.9 ± 0.2
W00220	N10020	A	2.7 ± 0.2	1.1 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W00230	N09990	A	1.4 ± 0.1	0.8 ± 0.2
W00230	N10010	A	1.6 ± 0.1	1.1 ± 0.2
W00230	N10030	A	1.9 ± 0.2	1.0 ± 0.2
W00240	N09980	2.7 ± 2.7	0.9 ± 0.1	0.5 ± 0.2
W00240	N10000	A	1.9 ± 0.2	1.0 ± 0.2
W00240	N10020	A	2.4 ± 0.2	1.2 ± 0.2
W00250	N09990	A	1.6 ± 0.1	1.1 ± 0.2
W00250	N10010	A	1.8 ± 0.1	0.6 ± 0.2
W00250	N10030	A	2.1 ± 0.1	1.3 ± 0.2
W00260	N09980	A	2.0 ± 1.6	1.4 ± 0.3
W00260	N10000	A	1.5 ± 0.1	0.8 ± 0.3
W00260	N10020	3.0 ± 1.6	1.6 ± 0.1	1.3 ± 0.2
W00260	N10040	A	1.9 ± 0.2	1.3 ± 0.2
W00270	N09990	A	1.5 ± 0.2	1.2 ± 0.2
W00270	N10010	A	2.4 ± 0.2	1.1 ± 0.2
W00270	N10030	A	2.2 ± 0.1	0.7 ± 0.2
W00270	N10050	A	2.3 ± 0.2	0.7 ± 0.3
W00280	N10000	A	2.2 ± 0.2	1.2 ± 0.2
W00280	N10020	A	2.2 ± 0.1	1.0 ± 0.2
W00280	N10040	A	2.1 ± 0.2	1.4 ± 0.2
W00290	N10010	A	1.5 ± 0.1	1.4 ± 0.2
W00290	N10030	A	3.5 ± 0.2	1.2 ± 0.3
W00290	N10050	A	2.1 ± 0.2	0.6 ± 0.2
W00300	N10020	A	1.9 ± 0.1	1.1 ± 0.2
W00300	N10040	A	2.4 ± 0.2	1.2 ± 0.2
W00300	N10060	2.1 ± 1.1	3.0 ± 0.2	0.9 ± 0.2
W00310	N10030	A	1.0 ± 0.1	0.5 ± 0.2
W00310	N10050	A	1.5 ± 0.4	0.8 ± 0.4
W00310	N10070	A	6.0 ± 0.3	0.3 ± 0.2
W00320	N10020	2.1 ± 1.7	2.0 ± 0.1	0.6 ± 0.1
W00320	N10040	A	2.2 ± 0.2	1.4 ± 0.2
W00320	N10060	A	2.9 ± 0.2	1.4 ± 0.2
W00330	N10030	2.5 ± 1.2	2.4 ± 0.2	1.8 ± 0.2
W00330	N10050	A	3.8 ± 0.2	1.3 ± 0.3
W00330	N10070	A	3.0 ± 0.2	0.9 ± 0.2
W00330	N10090	A	3.7 ± 0.2	1.1 ± 0.2
W00340	N10040	A	1.9 ± 0.2	0.5 ± 0.4
W00340	N10060	A	3.4 ± 0.2	0.9 ± 0.2
W00340	N10080	A	2.0 ± 0.2	0.7 ± 0.2
W00350	N10050	A	1.3 ± 0.1	1.3 ± 0.2
W00350	N10070	A	2.0 ± 0.2	0.8 ± 0.2
W00350	N10090	A	2.6 ± 0.2	1.0 ± 0.2
W00360	N10040	A	1.3 ± 0.2	0.7 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W00360	N10060	A	1.6 ± 0.2	0.9 ± 0.2
W00360	N10080	A	2.9 ± 0.2	1.2 ± 0.2
W00370	N10050	A	0.9 ± 0.2	0.9 ± 0.2
W00370	N10070	A	3.4 ± 0.2	0.8 ± 0.3
W00370	N10090	A	2.2 ± 0.2	1.0 ± 0.2
W00380	N10060	A	1.0 ± 0.1	1.2 ± 0.2
W00380	N10080	A	2.5 ± 0.2	1.4 ± 0.2
W00380	N10100	A	2.3 ± 0.2	A
W00390	N10050	A	1.0 ± 0.1	0.5 ± 0.2
W00390	N10070	A	1.2 ± 0.2	1.1 ± 0.2
W00390	N10090	A	5.5 ± 0.3	0.8 ± 0.2
W00390	N10110	A	3.7 ± 0.2	0.6 ± 0.2
W00390	N10120	A	6.0 ± 0.3	1.0 ± 0.2
W00400	N10060	A	0.8 ± 0.1	1.2 ± 0.2
W00400	N10080	A	5.4 ± 0.4	A
W00400	N10100	A	2.7 ± 0.2	0.8 ± 0.3
W00400	N10120	A	1.5 ± 0.1	1.0 ± 0.2
W00400	N10140	A	5.2 ± 0.3	0.8 ± 0.3
W00410	N10090	A	3.8 ± 0.2	0.7 ± 0.2
W00410	N10110	A	1.4 ± 0.2	1.5 ± 0.3
W00410	N10130	A	1.1 ± 0.1	0.8 ± 0.2
W00410	N10150	4.9 ± 2.2	5.1 ± 0.3	1.4 ± 0.2
W00420	N10100	A	6.0 ± 0.3	1.2 ± 0.3
W00420	N10120	A	3.4 ± 0.2	0.7 ± 0.2
W00420	N10140	A	4.5 ± 0.2	0.8 ± 0.3
W00430	N10090	A	1.0 ± 0.1	0.9 ± 0.2
W00430	N10110	A	4.3 ± 0.2	A
W00440	N10100	3.4 ± 2.1	4.1 ± 0.3	1.3 ± 0.2
W00440	N10120	A	5.2 ± 0.3	1.2 ± 0.2
W00450	N10110	A	5.4 ± 0.3	0.7 ± 0.2
W00450	N10130	A	3.7 ± 0.2	1.0 ± 0.2
W00460	N10120	A	5.1 ± 0.3	1.7 ± 0.2
W00460	N10140	A	3.2 ± 0.2	1.0 ± 0.2
W00460	N10160	A	4.2 ± 0.2	1.4 ± 0.3
W00470	N10120	A	5.4 ± 0.3	A
W00470	N10140	A	1.2 ± 0.1	0.7 ± 0.2
W00480	N10140	A	3.0 ± 0.2	0.7 ± 0.2
W00480	N10160	A	4.0 ± 0.2	1.2 ± 0.2
W00490	N10130	A	4.8 ± 0.2	1.0 ± 0.2
W00490	N10150	A	4.7 ± 0.2	1.1 ± 0.2
W00500	N10140	A	3.7 ± 0.2	0.7 ± 0.2
W00500	N10160	A	4.3 ± 0.2	2.4 ± 0.3
W00510	N10150	A	4.7 ± 0.2	1.1 ± 0.3

TABLE 1 3 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W00520	N10150	A	6.6 ± 0.3	0.8 ± 0.2
W00520	N10160	A	4.2 ± 0.2	0.8 ± 0.3
W00530	N10150	A	6.0 ± 0.3	1.1 ± 0.2
W00530	N10170	A	3.7 ± 0.2	0.9 ± 0.2
W00540	N10160	A	4.4 ± 0.3	0.9 ± 0.2
W00550	N10170	A	8.5 ± 0.4	1.3 ± 0.3
W00560	N10160	A	4.5 ± 0.2	1.3 ± 0.2
W00570	N10170	A	5.2 ± 0.3	0.7 ± 0.3
W00580	N10180	A	6.5 ± 0.4	1.0 ± 0.3
W00580	N10190	A	5.0 ± 0.2	0.7 ± 0.2
W00590	N10170	A	4.3 ± 0.2	1.0 ± 0.2
W00600	N10180	A	4.3 ± 0.2	0.9 ± 0.2
W00600	N10200	A	7.0 ± 0.3	1.0 ± 0.3
W00610	N10190	A	5.5 ± 0.3	0.8 ± 0.3
W00620	N10180	A	2.7 ± 0.2	1.2 ± 0.2
W00620	N10200	A	4.1 ± 0.2	0.5 ± 0.2
W00630	N10190	A	11.3 ± 0.6	2.2 ± 0.6
W00630	N10210	A	4.6 ± 0.2	0.8 ± 0.2
W00640	N10200	A	4.2 ± 0.2	1.1 ± 0.2
W00650	N10190	A	0.8 ± 0.1	0.9 ± 0.2
W00650	N10210	A	5.3 ± 0.2	1.0 ± 0.2
W00660	N10200	A	2.8 ± 0.2	1.2 ± 0.2
W00660	N10220	A	3.9 ± 0.2	1.5 ± 0.2
W00670	N10210	A	3.1 ± 0.2	0.7 ± 0.2
W00670	N10220	A	3.6 ± 0.3	1.5 ± 0.3
W00670	N10230	A	4.4 ± 0.2	1.1 ± 0.2
W00680	N10240	A	4.8 ± 0.3	1.0 ± 0.2
W00690	N10210	A	3.0 ± 0.2	0.9 ± 0.2
W00690	N10230	A	2.4 ± 0.2	1.0 ± 0.2
W00700	N10220	A	4.0 ± 0.2	1.0 ± 0.3
W00700	N10240	A	3.2 ± 0.2	1.0 ± 0.2
W00710	N10230	A	3.2 ± 0.2	0.9 ± 0.2
W00720	N10240	A	3.5 ± 0.2	A
W00730	N10230	A	3.6 ± 0.2	0.9 ± 0.2
W00730	N10250	A	3.4 ± 0.2	0.9 ± 0.2
W00740	N10240	A	3.3 ± 0.2	1.2 ± 0.2
W00750	N10250	A	2.1 ± 0.1	1.6 ± 0.2
W00760	N10240	A	6.5 ± 0.3	1.1 ± 0.3
W00760	N10260	A	3.6 ± 0.2	0.9 ± 0.2
W00770	N10270	A	3.5 ± 0.2	1.1 ± 0.2
W00780	N10260	A	6.0 ± 0.3	1.2 ± 0.2
W00780	N10280	A	4.4 ± 0.2	1.3 ± 0.2
W00790	N10250	A	3.1 ± 0.5	1.2 ± 0.4

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W00790	N10270	A	4.7 ± 0.2	1.4 ± 0.2
W00800	N10260	A	2.4 ± 0.2	0.9 ± 0.2
W00800	N10280	A	5.0 ± 0.3	1.0 ± 0.3
W00810	N10270	A	5.7 ± 0.3	A
W00810	N10290	A	3.6 ± 0.2	1.3 ± 0.2
W00820	N10260	4.9 ± 1.3	1.0 ± 0.1	1.1 ± 0.2
W00820	N10280	A	6.2 ± 0.3	1.2 ± 0.4
W00820	N10300	A	1.7 ± 0.1	1.3 ± 0.2
W00830	N10270	A	3.1 ± 0.2	0.7 ± 0.2
W00830	N10290	A	6.1 ± 0.3	1.1 ± 0.3
W00840	N10280	A	6.5 ± 0.3	0.6 ± 0.2
W00840	N10300	A	2.5 ± 0.2	1.0 ± 0.2
W00850	N10290	A	2.9 ± 0.2	1.2 ± 0.2
W00850	N10310	A	3.7 ± 0.2	1.1 ± 0.2
W00860	N10300	A	3.9 ± 0.2	1.1 ± 0.5
W00870	N10280	A	1.0 ± 0.4	A
W00870	N10290	A	4.6 ± 0.2	1.0 ± 0.2
W00870	N10310	A	7.5 ± 0.4	1.0 ± 0.3
W00880	N10280	A	2.0 ± 0.4	A
W00880	N10300	A	4.7 ± 0.3	1.0 ± 0.3
W00880	N10320	A	3.5 ± 0.2	0.7 ± 0.2
W00890	N10310	A	4.6 ± 0.3	0.7 ± 0.2
W00900	N10300	A	2.0 ± 0.2	0.9 ± 0.2
W00900	N10320	A	4.1 ± 0.3	0.9 ± 0.2
W00910	N10310	A	3.9 ± 0.2	1.0 ± 0.2
W00910	N10330	A	3.9 ± 0.2	0.6 ± 0.2
W00920	N10300	A	1.8 ± 0.1	0.7 ± 0.2
W00920	N10320	A	4.3 ± 0.2	0.8 ± 0.3
W00920	N10340	A	1.1 ± 0.3	0.8 ± 0.4
W00930	N10330	A	2.1 ± 0.5	A
W00940	N10320	A	3.5 ± 0.2	0.8 ± 0.2
W00940	N10340	A	1.0 ± 0.4	A
W00950	N10330	A	3.0 ± 0.6	A
W00950	N10350	A	4.5 ± 0.2	1.0 ± 0.2
W00960	N10340	A	7.2 ± 0.3	A
W00970	N10330	A	0.9 ± 0.1	0.6 ± 0.2
W00970	N10350	A	3.6 ± 0.2	1.6 ± 0.2
W00980	N10340	A	4.2 ± 0.2	1.0 ± 0.2
W00980	N10360	A	3.0 ± 0.2	1.0 ± 0.2
W00990	N10350	A	1.6 ± 0.4	A
W00990	N10370	A	4.7 ± 0.2	0.6 ± 0.2
W01000	N10340	A	1.1 ± 0.1	1.6 ± 0.2
W01010	N10360	A	3.6 ± 0.2	0.5 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W01010	N10370	A	3.2 ± 0.2	0.8 ± 0.2
W01020	N10360	A	2.6 ± 0.2	1.1 ± 0.2
W01020	N10380	A	3.0 ± 0.2	1.3 ± 0.2
W01030	N10370	A	3.8 ± 0.2	0.8 ± 0.2
W01040	N10360	A	3.1 ± 0.2	A
W01040	N10380	A	2.8 ± 0.2	0.9 ± 0.1
W01050	N10370	A	3.5 ± 0.2	1.1 ± 0.2
W01050	N10390	A	3.5 ± 0.2	0.6 ± 0.2
W01060	N10380	A	3.9 ± 0.2	1.0 ± 0.2
W01060	N10400	A	2.8 ± 0.2	0.9 ± 0.2
W01070	N10390	A	3.7 ± 0.2	0.6 ± 0.2
W01080	N10380	A	3.3 ± 0.2	0.7 ± 0.2
W01080	N10400	A	4.8 ± 0.2	1.0 ± 0.2
W01090	N10390	A	3.2 ± 0.2	0.7 ± 0.2
W01090	N10410	A	4.0 ± 0.2	0.5 ± 0.2
W01100	N10380	A	3.9 ± 0.2	0.7 ± 0.3
W01100	N10400	A	2.4 ± 0.2	1.0 ± 0.2
W01100	N10420	A	3.0 ± 0.2	0.9 ± 0.2
W01110	N10390	A	0.7 ± 0.1	0.6 ± 0.2
W01110	N10410	A	5.1 ± 0.3	0.6 ± 0.2
W01120	N10420	A	3.6 ± 0.2	1.0 ± 0.2
W01120	N10490	A	3.6 ± 0.2	0.8 ± 0.2
W01130	N10410	A	3.3 ± 0.2	1.2 ± 0.2
W01130	N10430	A	2.6 ± 0.2	0.8 ± 0.2
W01140	N10420	A	3.4 ± 0.2	1.4 ± 0.2
W01150	N10410	A	3.6 ± 0.2	0.7 ± 0.2
W01150	N10430	A	5.0 ± 0.2	A
W01160	N10420	A	3.2 ± 0.2	0.8 ± 0.2
W01160	N10440	A	4.6 ± 0.2	1.3 ± 0.2
W01170	N10410	A	0.9 ± 0.1	0.9 ± 0.1
W01170	N10430	A	4.5 ± 0.2	0.7 ± 0.2
W01170	N10450	A	2.1 ± 0.2	0.9 ± 0.1
W01180	N10420	A	1.4 ± 0.1	1.1 ± 0.2
W01180	N10440	A	2.8 ± 0.2	1.0 ± 0.2
W01180	N10460	A	0.8 ± 0.1	1.0 ± 0.2
W01190	N10430	A	2.9 ± 0.2	0.7 ± 0.2
W01190	N10450	A	4.9 ± 0.2	0.7 ± 0.2
W01200	N10440	A	3.0 ± 0.2	0.6 ± 0.3
W01200	N10460	A	1.5 ± 0.1	0.7 ± 0.2
W01210	N10450	A	3.9 ± 0.2	A
W01220	N10440	A	3.3 ± 0.2	0.9 ± 0.2
W01220	N10460	A	13.7 ± 0.5	2.4 ± 0.6
W01230	N10450	6.0 ± 2.2	5.3 ± 0.3	0.7 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W01230	N10470	A	4.7 ± 0.2	1.7 ± 0.2
W01240	N10460	A	5.8 ± 0.3	1.0 ± 0.2
W01240	N10480	A	3.9 ± 0.2	1.3 ± 0.2
W01250	N10450	A	1.0 ± 0.1	1.0 ± 0.2
W01250	N10470	A	4.9 ± 0.2	0.7 ± 0.2
W01260	N10460	A	1.2 ± 0.1	0.6 ± 0.2
W01260	N10480	A	3.7 ± 0.2	0.8 ± 0.2
W01270	N10470	A	3.2 ± 0.2	1.1 ± 0.2
W01270	N10490	A	5.4 ± 0.3	0.9 ± 0.2
W01280	N10480	A	4.2 ± 0.2	1.2 ± 0.2
W01280	N10500	A	4.5 ± 0.2	1.3 ± 0.2
W01290	N10470	A	3.2 ± 0.2	1.1 ± 0.2
W01290	N10490	A	6.4 ± 0.3	1.3 ± 0.2
W01300	N10480	A	3.4 ± 0.2	0.6 ± 0.2
W01300	N10500	A	4.3 ± 0.2	1.9 ± 0.2
W01310	N10490	A	4.5 ± 0.2	1.0 ± 0.2
W01310	N10510	A	3.6 ± 0.2	1.2 ± 0.2
W01320	N10480	A	1.1 ± 0.1	0.7 ± 0.1
W01320	N10500	A	4.5 ± 0.2	1.8 ± 0.2
W01330	N10490	1.7 ± 1.1	1.1 ± 0.1	0.8 ± 0.2
W01330	N10510	A	3.9 ± 0.2	1.0 ± 0.2
W01340	N10500	A	3.7 ± 0.2	0.9 ± 0.2
W01340	N10520	A	4.3 ± 0.2	0.8 ± 0.2
W01350	N10490	A	0.8 ± 0.1	1.0 ± 0.2
W01350	N10510	A	3.7 ± 0.2	1.0 ± 0.2
W01360	N10500	A	4.6 ± 0.2	1.1 ± 0.2
W01360	N10520	A	4.4 ± 0.2	1.4 ± 0.2
W01370	N10510	A	4.6 ± 0.2	1.2 ± 0.2
W01370	N10530	A	5.0 ± 0.2	1.2 ± 0.3
W01380	N10500	A	2.7 ± 0.2	0.7 ± 0.2
W01380	N10520	A	4.1 ± 0.2	0.6 ± 0.2
W01380	N10540	A	2.8 ± 0.4	0.7 ± 0.3
W01390	N10510	A	4.4 ± 0.2	0.9 ± 0.3
W01390	N10530	A	4.8 ± 0.2	0.8 ± 0.2
W01400	N10520	A	3.3 ± 0.2	1.2 ± 0.2
W01400	N10540	A	3.2 ± 0.2	0.7 ± 0.2
W01410	N10510	A	0.7 ± 0.1	0.9 ± 0.2
W01410	N10530	A	4.0 ± 0.2	0.5 ± 0.2
W01410	N10550	A	2.8 ± 0.2	0.9 ± 0.2
W01420	N10520	A	4.0 ± 0.2	0.8 ± 0.2
W01420	N10540	2.7 ± 1.6	3.9 ± 0.2	1.5 ± 0.2
W01430	N10530	A	5.5 ± 0.3	0.8 ± 0.2
W01430	N10550	A	4.2 ± 0.2	1.6 ± 0.2

TABLE 13 (continued)

Grid Coordinates		Concentrations (pCi/g ± /- 1 sigma)		
E, W	N, S	Uranium-238	Radium-226	Thorium-232
W01430	N10560	A	3.2 ± 0.2	A
W01440	N10540	A	4.4 ± 0.2	1.3 ± 0.2
W01450	N10530	A	1.4 ± 0.1	0.9 ± 0.2
W01450	N10550	A	3.2 ± 0.2	1.4 ± 0.2

'A' denotes less than detectable activity.

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Unexcavated Area

Excerpt from Post-Remedial Action Report for the Niagara Falls Storage Site Vicinity Properties 1983 and 1984

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3.0 RADIOLOGICAL ASSESSMENT

To assess the potential radiological effects from the unexcavated portion of the CDD, all reasonable exposure pathways to man were considered. Only those determined to be realistic were calculated.

3.1 SOURCE TERMS

Radioactivity in the sediment and water of the unexcavated portion of the CDD constitute the source terms. While soil samples collected were not analyzed for thorium-230, this radionuclide was assumed to be in equilibrium with its radium-226 daughter. During 1985, 60 soil samples were taken along the ditch, 30 at a depth of 0 to 15 cm (0 to 6 in.) and 30 at a depth of 15 to 30 cm (6 to 12 in.). The average radium-226 and thorium-230 concentrations in the soil at each of these depths are presented in Table 3-1. Quarterly water samples were taken at each of two locations in the ditch during 1984-85; the annual average radium-226 and thorium-230 concentrations in the water are presented in Table 3-2.

3.2 METHODOLOGY AND RESULTS OF EXTERNAL RADIATION DOSE CALCULATIONS

3.2.1 External Dose from Contaminated Sediment

The methodology for calculating external radiation dose from contaminated ground was based on the dose conversion factors calculated by Kocher and Sjoreen (Ref. 8). The dose conversion factors for contamination in soil are for exposures 1 m (3 ft) from the ground. The contamination is assumed to be uniformly distributed to an infinite depth and lateral extent. The dose conversion factors for radionuclides distributed in the soil will depend on the density of the soil, which in this case was assumed to be 1.5 g/cm^3. Other parameters considered in the calculations were an occupancy factor (average fraction of time the individual is

TABLE 3-1

AVERAGE CONCENTRATION OF RADIONUCLIDES IN SEDIMENT IN THE UNEXCAVATED SECTION OF THE CDD

Depth (cm/in.)	Average Concentration (pCi/g)*	
	Thorium-230**	Radium-226
0-15 / 0-6	6.1	6.1
15-30 / 6-12	3.6	3.6

*Source: ANL (Ref. 3).

**Thorium-230 is assumed to be in equilibrium with its radium-226 daughter.

TABLE 3-2

AVERAGE CONCENTRATION OF DISSOLVED RADIONUCLIDES IN CDD WATER

Year	Average Concentration (pCi/l)*	
	Thorium-239**	Radium-226
1984	0.35	0.35
1985	0.30	0.30
1984-85 Average	0.33	0.33

*Source: BNI (Refs. 9 and 10)

**Thorium-230 is assumed to be in equilibrium with its radium-226 daughter.

exposed to the source); an area factor (fraction of the area contributing to the external exposure) (Ref. 11); and a depth factor. The latter is the ratio of the external exposure from a layer of contamination of known thickness and cover depth to the external exposure from a layer of contamination of infinite thickness and no cover. In this case, no cover materials are present. Since averaging the radionuclide concentration over the entire thickness of the contaminated zone [30 cm (12 in.)] would give a lower dose, doses were calculated separately for the 0-to-15-cm (0-to-6-in.) and 15-to-30-cm (6-to-12-in.) depths, using the appropriate depth factor for each. The resulting doses were then summed for the total dose from external gamma radiation. Details of the calculation are presented in Appendix A.

Radium-226 would contribute the highest potential dose from the external gamma radiation pathway to a youth playing in the CDD. During periods of dry weather, some of the sediment in the bottom of the channel is left exposed. It is assumed that a youth might spend 2 h/day during the summer (for a total of 180 h/yr) playing in the ditch. The total external dose received would be 1.1 mrem/yr (see Table 3-3). Since the CDD is not used for other recreational purposes, this exposure scenario represents the maximum potential dose from exposure to the sediments.

The calculation in Appendix A is for the dose rate at the "standard" 1 m (3 ft) above the ground. For the above scenario, the height of 1 m (3 ft) would seem too far above the ground to be appropriate for the dose to a youth. To determine the increase in dose at a height of 0.5 m (1.6 ft), two different calculations were used. First, the percentage increase was calculated using the formula for an infinite plane source. Second, equations were used for a rectangular source plane with dimensions approximating the ditch, assuming it to be 8 m (26 ft) wide and 40 m (131 ft) long. The percentage increases were 23 and 39, respectively. Using the latter value, the external dose at 0.5 m (1.6 ft) would be 1.6 mrem/yr instead of 1.1 mrem/yr. Since the difference is not significant compared with a yearly dose limit of 100 mrem/yr, the 1.1 mrem/yr factor will be used because it

TABLE 3-3

SUMMARY OF COMMITTED EFFECTIVE DOSE EQUIVALENTS RESULTING FROM ENVIRONMENTAL PATHWAYS EXPOSURES TO THE UNEXCAVATED CDD

Pathway	Committed Effective Dose Equivalent (mrem/yr)		
	Thorium-230	Radium-226	Total
External Exposure	1.0×10^{-4}	1.1	1.1
Internal Exposure			
Milk Intake	5.1×10^{-6}	1.2×10^{-3}	1.2×10^{-3}
Beef Intake	5.5×10^{-5}	2.9×10^{-3}	3.0×10^{-3}
Fish Intake	2.9×10^{-4}	1.3×10^{-2}	1.3×10^{-2}
Total	0.001	1.2	1.2

represents the standard approach for calculating dose rate at 1 m (3 ft) from the ground surface.

3.2.2 External Dose from Contaminated Water

Any dose received from direct exposure to the water is insignificant for several reasons: (1) the volume of water is small, (2) the water contains concentrations of radium-226 and thorium-230 lower than the DOE concentration guides for release for unrestricted use, and (3) no recreational use is made of the CDD (e.g., boating or swimming).

3.2.3 External Dose from Dredged Sediments

A scenario of dredging the CDD and using the excavated soil from the ditch as topsoil for a building lot along the bank was also considered. Since concentrations of the radionuclides in the ditch are very near those permitted by the generic guidelines for residual contamination, physical handling during dredging activities would dilute the contamination to concentrations below these guideline values. Nevertheless, the dredging scenario was considered the most realistic of the scenarios evaluated and therefore was used as the basis for developing the supplemental guideline.

3.3 METHODOLOGY AND RESULTS OF INTERNAL RADIATION DOSE CALCULATIONS

The methodology for calculating internal dose from the ingestion of radionuclides was based on detailed information from Killough and McKay (Ref. 12) and the U.S. Nuclear Regulatory Commission Regulatory Guide 1.109 (Ref. 13).

The dose conversion factors used in the calculations represent the effective committed dose equivalent per unit intake of radionuclide by the ingestion pathway. The dose conversion factors are taken from ORNL/NUREG/TM-19/V3 (Ref. 14) and are based on information in

Publication 30 of the International Committee on Radiation Protection (Ref. 15). The dose conversion factors are listed in Table A-1 of Appendix A.

Other parameters used in the dose calculations are shown in Tables A-2 through A-5 of Appendix A. Stable element transfer factors for milk and meat are taken from NUREG-0707 (Ref. 16), animal (cattle) consumption rates are taken from Regulatory Guide 1.109 (Ref. 13), and food (milk, beef, and fish) intake patterns for man are taken from Report No. 76 of the National Council on Radiation Protection (Ref. 17). The bioaccumulation factors for freshwater fish are taken from DOE/TIC/11468 (Ref. 18).

3.3.1 Internal Dose from Ingestion of Stream Water

Internal exposure from water consumption does not occur since water from the CDD is not used for drinking. Furthermore, the actual radionuclide concentrations are below those specified by DOE concentration guides for release of water for unrestricted use. If a person did take all of his drinking water from the ditch, his dose for a year's intake would be only 0.73 mrem. Consequently, the scenario of ditch water infiltrating into groundwater is also an insignificant dose pathway.

3.3.2 Internal Dose from Drinking Milk

A farmer in the area could theoretically receive all of his daily intake of milk from cows that obtain water only from the CDD. The committed effective dose equivalent from this pathway would be 0.0012 mrem/yr (see Table 3-3).

3.3.3. Internal Dose from Eating Beef

Assuming hypothetically that beef cattle grazing in the area could obtain their yearly intake of drinking water from the CDD and that a local resident could receive his yearly intake of beef from this

source, the committed effective dose equivalent from this pathway would be 0.003 mrem/yr (see Table 3-3).

3.3.4 Internal Dose from Eating Fish

Although fishing is not commonly practiced along the CDD, the conservative assumption was made that during most of the year, fresh fish could be taken from the CDD and would provide the entire dietary intake for a local fisherman. The committed effective dose equivalent from this pathway would be 0.013 mrem/yr (see Table 3-3).

3.3.5 Internal Dose from Inhaling Resuspended Dust

The low concentrations of radionuclides in the CDD, maximum mass loading of dust in air, moist condition of the streambed, and presence of vegetation along the bank, combine to render this exposure pathway insignificant. Occupancy factors near the ditch are low, and atmospheric dispersion of dust leaving the vicinity of the ditch further reduces airborne radionuclide concentrations to immaterial levels.

3.3.6 Internal Dose from Ingesting Crops

Irrigation and airborne deposition are two mechanisms by which crops could accumulate radionuclides that could be ingested by an individual.

Airborne deposition is not a realistic pathway for the same reasons as those listed in Subsection 3.3.5. There is no known use of the CDD as a source of irrigation water. However, since radionuclide concentrations in the water are below those specified by DOE guidelines for unrestricted release, the water could be used for unrestricted purposes without contributing significantly to dose.

3.3.7 Internal Dose from Radon Inhalation

Since radon gas is generated by the radioactive decay of radium-226, inhalation of the gas was considered as an internal exposure pathway. However, because concentrations of radium in the ditch sediments are low and because, in this case, radon can disperse freely into the atmosphere, no appreciable dose from this pathway is foreseen.

3.3.8 Use of the CDD by a Resident

The scenario of a house being built over a section of the CDD was considered. For this scenario, the assumption was made that the ditch would be either rerouted and filled with soil or routed through a covered culvert. Given these assumptions, the effects of this exposure pathway is reduced by several orders of magnitude.

4.0 SUMMARY AND DISCUSSION

Several exposure pathways were evaluated to develop a residual contamination guideline specifically for the CDD. This guideline will supplement the generic FUSRAP remedial action guidelines of 5 pCi/g and 15 pCi/g for radium-226 in surface and subsurface soil, respectively.

Of the exposure pathways evaluated, the scenario considered most realistic was that in which a residence was built on sediments that had been dredged from the ditch and spread along the bank.

Table 3-3 presents a summary of the potential doses associated with living near the section of the CDD along which no remedial action was performed. The total dose from the sediments in the ditch via all pathways is approximately 1.2 mrem/yr. This dose was received primarily from radium-226, the average concentration of which was 6.1 pCi/g, which equates to a dose factor of 0.2 mrem/yr per pCi/g. The dose from thorium-230 did not contribute significantly to the total dose. The external exposure pathway accounts for approximately 1.2 percent of the DOE radiation protection standard of 100 mrem/yr. Based on this analysis, the basic dose limit of 100 mrem/yr would not be exceeded unless radium-226 concentrations in the sediments exceeded 500 pCi/g.

However, use of a supplemental guideline as high as 500 pCi/g is not realistic based on the dredging scenario described above. Rather, calculation of the supplemental guideline was based on the predicted dilution that would occur as a result of spreading the sediments along the bank.

The assumptions made in calculating the supplemental guideline were: (1) the NFSS waste containment facility would not be the source of any increase in radionuclide concentrations in the CDD since modelling studies have shown no contaminant migration from the

facility during its 50-yr design life and no migration off-site for 10,000 years (Ref. 19); (2) the streambed in the CDD is 8 m wide; (3) contamination extends to a depth of 15 cm in the sediments in the ditch; (4) spoils from dredging the ditch would be spread evenly over a 30-m-wide area adjacent to the ditch.

Given the above assumptions and the topography of the CDD, calculations showed that the contamination in the sediments would be diluted by a factor of 4 when spread along the bank. The supplemental guideline was therefore set at 20 pCi/g, four times the generic remedial action guideline of 5 pCi/g for radium-226 in surface soil.

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APPENDIX A

METHODOLOGY AND PARAMETERS USED IN DOSE CALCULATIONS FOR DEVELOPING SUPPLEMENTAL RESIDUAL CONTAMINATION GUIDELINE FOR THE NFSS CENTRAL DRAINAGE DITCH

APPENDIX A

METHODOLOGY AND PARAMETERS USED IN DOSE CALCULATIONS FOR DEVELOPING SUPPLEMENTAL RESIDUAL CONTAMINATION GUIDELINE FOR THE NFSS CENTRAL DRAINAGE DITCH

DOSE CALCULATIONS

External Dose

Dose = concentration of radionuclide in soil (pCi/g) x density of soil (g/cm^3) x occupancy factor x area factor x depth factor x dose conversion factor (mrem/yr)/(pCi/cm^3)

where:

- The density factor (g/cm^3) is included in order to convert the dose conversion factor (mrem/yr)/(pCi/cm^3) to (mrem/yr)/(pCi/g).
- The occupancy factor is a unitless factor that gives the average fraction of time the individual spends exposed to the radiation source.
- The area factor can be obtained by interpretation of data from NUREG/CR-3620 (Ref. 1).
- The depth factor is the ratio of the external exposure from a layer of contamination of known thickness and cover depth to the exposure from a layer of contamination of infinite thickness and no cover.

1. Dose from drinking milk contaminated by a cow drinking contaminated stream water:

Dose (mrem/yr) = 0.33 pCi/l (average concentration of radium-226 in water) x 60 l/day (water intake by cow) x 4.5 10^{-4} days/l (milk transfer factor) x 0.26 l/day (milk intake by man) x 365 days/yr x 1.38 x 10^{-3} mrem/pCi (dose conversion factor for radium-226 ingestion) = 1.2 x 10^{-3} mrem/yr.

2. Dose from eating beef contaminated by cattle drinking stream water:

Dose (mrem/yr) = 0.33 pCi/l (average concentration of radium-226 in water) x 50 l/day (water intake by cattle) x 4 x 10^{-3} days/kg (flesh transfer factor) x 8.6 10^{-2} kg/day (beef intake by man) x 365 days/yr x 1.38 x 10^{-3} mrem/pCi (dose conversion factor for radium-226 ingestion) = 2.9 x 10^{-3} mrem/yr.

3. Dose from eating fish caught in contaminated stream:

Dose (mrem/yr) = 0.33 pCi/l divided by 1000 g/l x 5.0 x 10' (bioaccumulation factor) x 5.4 x 10^{2} g/yr (fish intake) x 1.38 x 10^{-3} mrem/pCi (dose conversion factor) = 1.3 x 10^{-2} mrem/yr.

4. External dose to youth playing in Central Drainage Ditch for 180 h/yr:

a. Dose from contamination at a depth of 0 to 15 cm (0 to 6 in.):

Dose (mrem/yr) = 6.1 pCi/g (concentration of radium-226 in soil) x 1.5 g/cm^3 (density of soil) x 0.02 (occupancy factor) x 0.61 (area factor) x 0.79 (depth factor) x 11.2 mrem/yr/pCi/cm^3 (dose conversion factor) = 9.9 x 10^{-1} mrem/yr.

b. Dose from contamination at a depth of 15 to 30 cm (6 to 12 in.):

Dose (mrem/yr) = 3.6 pCi/g (concentration of radium-226 in soil) x 1.5 g/cm^3 (density of soil) x 0.02 (occupancy factor x 0.61 (area factor) x 0.21 (depth factor) x 11.2 (mrem/yr)/pCi/cm^3) = 1.5 x 10^{-1} mrem/yr

c. Total dose from external exposure:

Total dose = 9.9 x 10^{-1} mrem/yr (dose from 0 to 15 cm) + 1.5 x 10^{-1} mrem/yr (dose from 15 to 30 cm) = 1.14 mrem/yr

Internal Dose

1. Dose from drinking milk contaminated by a cow drinking contaminated water:

Dose (mrem/yr) = concentration of radionuclide in water (pCi/l) x water intake by cow (l/day) x 365 days/yr x dose conversion factor (mrem/pCi)

2. Dose from eating beef contaminated by cattle drinking contaminated water:

Dose (mrem/yr) = concentration of radionuclide in water (pCi/l) x water intake by cattle (l/day) x flesh transfer factor (days/kg) x beef intake by man (kg/day) x 365 days/yr x dose conversion factor (mrem/pCi)

3. Dose from eating fresh fish caught in the stream:

Dose (mrem/yr) = concentration of radionuclide in water (pCi/l)/1000 g/l x bioaccumulation factor for fresh fish x fish intake by man (g/yr) x dose conversion factor (mrem/pCi)

PARAMETERS

TABLE A-1

DOSE CONVERSION FACTORS

Radionuclide	Internal Dose (mrem/pCi) Committed Dose Equivalent*	External Dose** (mrem/yr)/(pCi/cm^3)
Radium-226	1.38×10^{-3}	11.2
Thorium-230	5.48×10^{-4}	1.42×10^{-3}

*Reference 2.

**Reference 3. Based on a soil density of 1.5 g/cm^3.

TABLE A-2

TRANSFER FACTORS (STABLE ELEMENT)*

Radionuclide	Milk (days/l)	Meat (days/kg)
Radium-226	4.5×10^{-4}	4.0×10^{-3}
Thorium-230	5.0×10^{-6}	2.0×10^{-4}

*Reference 4.

TABLE A-3

ANIMAL CONSUMPTION RATES*

Animal	Water Intake (liters/day)
Milk Cow	60
Beef Cattle	50

*Reference 5.

TABLE A-4

BIOACCUMULATION FACTOR FOR RADIONUCLIDES*

Aquatic Food (Fresh Fish)	Factor
Radium-226	50
Thorium-230	50

*Reference 6.

TABLE A-5

DIETARY PARAMETERS FOR MAN

(GREATER THAN 18 YEARS OF AGE)*

Food	Intake
Milk	261 ml/day
Beef	86 g/day
Fresh Fish	1.48 g/day

*Reference 6.

APPENDIX A

REFERENCES

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Verification Data

Excerpt from Verification of 1983 and 1984 Remedial Actions Niagara Falls Storage Site Vicinity Properties, Lewiston, New York, December 1989

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VERIFICATION
OF
1983 AND 1984 REMEDIAL ACTIONS
NIAGARA FALLS STORAGE SITE
VICINITY PROPERTIES
LEWISTON, NEW YORK

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FINAL REPORT

December 1989

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TABLE 17

RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES
FROM THE WEST DRAINAGE DITCH
NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES
LEWISTON, NEW YORK

Location[a]		Radionuclide Concentrations (pCi/g)		
N	W	Ra-226	U-238	Th-232
614	145	3.1 ± 0.3[b]	2.3 ± 0.8	0.9 ± 0.5
814	145	1.0 ± 0.3	<0.6	1.0 ± 0.4
1014	145	1.4 ± 0.3	<0.8	1.3 ± 0.4
1214	145	0.8 ± 0.2	0.7 ± 0.5	0.9 ± 0.5
1414	145	1.0 ± 0.3	<0.6	0.9 ± 0.4
1614	145	3.1 ± 0.4	2.1 ± 1.7	0.7 ± 0.5
1814	60	1.2 ± 0.3	2.2 ± 1.8	1.0 ± 0.3
2024	115	0.7 ± 0.2	0.6 ± 1.4	0.8 ± 0.3
2214	127	1.7 ± 0.3	<0.9	1.0 ± 0.3
2404	-25	2.7 ± 0.3	1.1 ± 0.6	0.7 ± 0.3
2614	-120	1.3 ± 0.3	1.8 ± 1.5	1.1 ± 0.5
2814	-250	0.5 ± 0.2	1.3 ± 0.7	0.8 ± 0.3
3014	-390	0.9 ± 0.3	<0.8	1.3 ± 0.5

[a]Refer to Figure 3.
[b]Uncertainties represent the 95% confidence levels, based only on counting statistics; additional laboratory uncertainties of ± 6 to 10% have not been propagated into these data.

TABLE 18

RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES
FROM THE CENTRAL DRAINAGE DITCH
NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES
LEWISTON, NEW YORK

Location[a]		Radionuclide Concentrations (pCi/g)		
N	E	Ra-226	U-238	Th-232
614	490	22.9 ± 1.0[b,c]	<1.8	0.5 ± 0.4
714	480	1.1 ± 0.2	0.6 ± 1.1	0.8 ± 0.4
814	490	1.6 ± 0.3	2.5 ± 0.6	0.8 ± 0.4
914	500	1.9 ± 0.3	<0.8	0.7 ± 0.3
1014	490	1.6 ± 0.2	0.5 ± 1.2	0.8 ± 0.2
1114	480	0.9 ± 0.2	0.8 ± 0.5	1.0 ± 0.5
1214	490	2.5 ± 0.5	<1.2	1.4 ± 0.7
1314	500	1.3 ± 0.4	<0.8	1.1 ± 0.7
1414	490	2.9 ± 0.4	1.3 ± 0.7	1.1 ± 0.5
1514	480	1.0 ± 0.2	<0.7	1.3 ± 0.5
1614	490	1.3 ± 0.3	0.9 ± 1.3	0.9 ± 0.4
1714	500	1.2 ± 0.2	1.6 ± 1.0	1.1 ± 0.3
1814	490	d	d	d
1904	480	1.2 ± 0.3	2.2 ± 1.5	0.9 ± 0.5
2014	480	0.8 ± 0.2	2.4 ± 1.2	0.9 ± 0.4
2114	460	1.0 ± 0.2	0.4 ± 0.5	1.1 ± 0.4
2214	460	1.0 ± 0.3	1.6 ± 1.5	0.9 ± 0.5
2314	460	0.9 ± 0.2	0.7 ± 1.1	1.1 ± 0.5
2414	440	0.9 ± 0.2	1.0 ± 0.6	1.2 ± 0.4
2514	420	0.9 ± 0.4	<0.8	1.2 ± 0.4
2614	420	0.9 ± 0.2	0.9 ± 0.9	0.7 ± 0.4

TABLE 18 (continued)

RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES
FROM THE CENTRAL DRAINAGE DITCH
NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES
LEWISTON, NEW YORK

Location[a]		Radionuclide Concentrations (pCi/g)		
N	E	Ra-226	U-238	Th-232
2714	420	1.6 ± 0.2	0.5 ± 0.9	0.9 ± 0.4
2814	400	1.2 ± 0.3	<0.8	1.1 ± 0.4
2914	380	1.5 ± 0.4	<0.5	0.8 ± 0.4
3014	390	0.8 ± 0.2	0.9 ± 0.8	1.1 ± 0.3
3114	400	1.2 ± 0.2	<0.7	1.1 ± 0.4
3214	390	1.0 ± 0.2	1.5 ± 1.3	1.1 ± 0.4
3304	380	0.9 ± 0.3	0.8 ± 0.8	1.0 ± 0.3
3414	390	0.9 ± 0.3	<0.7	0.8 ± 0.3
3514	400	0.8 ± 0.2	1.1 ± 1.2	0.6 ± 0.2
3614	390	1.1 ± 0.2	1.5 ± 0.8	0.9 ± 0.3
3714	380	4.2 ± 0.5	<1.0	1.0 ± 0.5
3814	390	1.1 ± 0.3	<0.8	1.0 ± 0.4
3914	400	0.7 ± 0.2	0.7 ± 1.5	0.8 ± 0.4
4014	390	1.0 ± 0.3	0.7 ± 0.7	0.8 ± 0.5
4114	380	2.3 ± 0.4	<0.9	1.1 ± 0.5
4214	390	1.0 ± 0.3	1.7 ± 3.3	1.1 ± 0.3
4314	400	0.8 ± 0.3	<0.8	1.1 ± 0.5
4414	390	1.3 ± 0.3	1.5 ± 0.6	1.1 ± 0.5
4514	380	1.3 ± 0.3	1.2 ± 1.1	0.7 ± 0.5
4614	390	1.1 ± 0.3	<0.8	1.4 ± 0.6
4714	400	0.8 ± 0.2	1.2 ± 0.8	0.9 ± 0.4

TABLE 18 (continued)

RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES
FROM THE CENTRAL DRAINAGE DITCH
NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES
LEWISTON, NEW YORK

Location[a]		Radionuclide Concentrations (pCi/g)		
N	E	Ra-226	U-238	Th-232
4814	390	1.3 ± 0.3	1.0 ± 1.7	1.1 ± 0.5
5138	380	0.9 ± 0.2	0.8 ± 1.1	1.0 ± 0.5
5466	390	0.9 ± 0.2	0.8 ± 1.0	0.8 ± 0.3
5794	400	1.2 ± 0.3	<0.8	1.0 ± 0.3
6122	390	1.3 ± 0.3	<0.5	0.7 ± 0.3
6450	380	0.6 ± 0.2	1.0 ± 0.4	0.8 ± 0.3
6778	390	1.3 ± 0.3	<0.7	0.7 ± 0.3
7106	400	0.8 ± 0.2	1.1 ± 1.0	0.9 ± 0.3
7434	390	1.4 ± 0.2	1.7 ± 1.6	1.2 ± 0.4
7762	380	0.6 ± 0.2	0.8 ± 1.3	0.8 ± 0.4
8090	390	4.3 ± 0.5	<0.7	0.7 ± 0.9
8418	400	1.2 ± 0.2	0.5 ± 0.4	0.9 ± 0.5
8746	390	2.6 ± 0.5	<1.4	0.7 ± 0.7
9074	380	2.0 ± 0.4	1.1 ± 2.0	1.3 ± 0.5
9402	390	0.9 ± 0.3	1.8 ± 0.7	1.1 ± 0.4
9730	400	1.0 ± 0.2	1.0 ± 0.9	0.7 ± 0.4
10058	390	4.0 ± 0.5	<1.0	1.0 ± 0.6
9905	275	1.7 ± 0.3	<0.6	0.7 ± 0.5
9950	80	1.8 ± 0.3	0.4 ± 0.6	1.1 ± 0.5

TABLE 18 (continued)

RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES
FROM THE CENTRAL DRAINAGE DITCH
NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES
LEWISTON, NEW YORK

Location[a]		Radionuclide Concentrations (pCi/g)		
N	E	Ra-226	U-238	Th-232
10010	-85	3.3 ± 0.5	<1.0	1.0 ± 0.4
10030	-240	2.2 ± 0.3	3.4 ± 1.6	1.0 ± 0.7
10100	-400	0.9 ± 0.2	0.9 ± 0.9	1.0 ± 0.3
10140	-475	2.2 ± 0.3	<0.9	1.4 ± 0.5

[a]Refer to Figure 3.
[b]Uncertainties represent the 95% confidence levels, based only on counting statistics; additional laboratory uncertainties of ± 6 to 10% have not been propagated into these data.
[c]Application of the hot spot criteria results in meeting the DOE guidelines.
[d]No sampling due to high water level.

TABLE 1 (continued)

RESULTS OF CONFIRMATORY ANALYSES ON SOIL SAMPLES
NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES
LEWISTON, NEW YORK

Property	Sample ID[a]	Grid Location	Analysis By	Radionuclide Concentration(pCi/g)[b] Ra-226	U-238	Th-232
	63	S2320, E3660	BNI	0.6 ± 0.2	<MDA	0.7 ± 0.2
			ORAU	0.6 ± 0.2	1.1 ± 0.6	0.7 ± 0.4
	69	S2330, E3690	BNI	0.6 ± 0.2	<MDA	0.7 ± 0.2
			ORAU	0.6 ± 0.2	1.1 ± 0.6	0.7 ± 0.4
R	2	S3140, W 607	BNI	4.0 ± 0.4	<MDA	1.1 ± 0.6
			ORAU	3.8 ± 0.5	<0.8	0.5 ± 0.3
	6	S3140, W 527	BNI	1.3 ± 0.2	<MDA	<MDA
			ORAU	1.2 ± 0.3	<0.7	1.6 ± 0.5
S	3	N1305, E 885	BNI	2.8 ± 0.6	<MDA	0.9 ± 0.4
			ORAU	2.1 ± 0.3	1.5 ± 0.9	1.0 ± 0.4
V	2	N3709, E1138	BNI	0.8 ± 0.2	<MDA	1.1 ± 0.4
			ORAU	0.9 ± 0.3	6.9 ± 1.3	1.0 ± 0.5
X	312	N 640, W 410	BNI	1.2 ± 0.2	1.3 ± 3.6	0.8 ± 0.4
			ORAU	1.0 ± 0.3	4.3 ± 2.0	1.4 ± 0.4
	4	N 690, W 420	BNI	1.0 ± 0.2	<MDA	0.7 ± 0.2
			ORAU	0.9 ± 0.3	2.9 ± 1.4	0.7 ± 0.3
	9	N 710, W 400	BNI	1.1 ± 0.2	<MDA	1.3 ± 0.4
			ORAU	0.8 ± 0.2	2.1 ± 2.2	1.3 ± 0.3
West Ditch	67	N 820, W 170.5	BNI	0.9 ± 0.2	<MDA	1.2 ± 0.6
			ORAU	1.0 ± 0.2	0.3 ± 1.1	0.9 ± 0.4
	125	N1560, W 170	BNI	1.3 ± 0.4	<MDA	1.2 ± 0.6
			ORAU	1.5 ± 0.3	1.5 ± 1.3	1.0 ± 0.3
	128	N1600, W 160	BNI	<MDA	<MDA	0.9 ± 1.2
			ORAU	78.7 ± 1.8	9.3 ± 12.5	0.9 ± 1.1
	200	N2220, W 110	BNI	1.3 ± 0.4	<MDA	0.6 ± 0.4
			ORAU	1.4 ± 0.3	1.3 ± 1.1	1.1 ± 0.4
	252	W2500, E 090	BNI	1.0 ± 0.2	<MDA	0.8 ± 0.4
			ORAU	1.0 ± 0.3	2.2 ± 1.4	1.2 ± 0.4

TABLE 1 (continued)

RESULTS OF CONFIRMATORY ANALYSES ON SOIL SAMPLES
NIAGARA FALLS STORAGE SITE VICINITY PROPERTIES
LEWISTON, NEW YORK

Property	Sample ID[a]	Grid Location	Analysis By	Radionuclide Concentration(pCi/g)[b]		
				Ra-226	U-238	Th-232
Central Ditch	142	N 660, E 480	BNI	1.3 ± 0.6	<15	1.2 ± 0.6
			ORAU	1.4 ± 0.3	<0.9	0.4 ± 0.2
	248	N1020, E 490	BNI	1.1 ± 0.2	0.8 ± 0.4	0.6 ± 0.2
			ORAU	1.1 ± 0.2	2.2 ± 0.8	0.8 ± 0.3
	469	N2160, E 461	BNI	1.0 ± 0.2	<MDA	1.0 ± 0.4
			ORAU	1.0 ± 0.2	0.7 ± 0.9	1.0 ± 0.3
	33	N5330, E 415	BNI	1.0 ± 0.2	<MDA	0.6 ± 0.2
			ORAU	0.9 ± 0.2	< 0.5	0.8 ± 0.4
	1302	N7590, E 410	BNI	0.9 ± 0.2	<MDA	1.0 ± 0.4
			ORAU	0.8 ± 0.2	2.1 ± 1.2	1.1 ± 0.3
	1761	N10190, W 650	BNI	0.8 ± 0.2	<MDA	0.9 ± 0.4
			ORAU	3.8 ± 0.5	1.8 ± 1.9	1.7 ± 0.8

[a]Sample Identification as presented in the BNI post-remedial action report.[14]
[b]Reported data includes background contributions from naturally occurring materials in soil.
[c]Uncertainties represent the 95% confidence levels, based only on counting statistics: systematic ORAU laboratory uncertainties, estimated at ± 6 to 10%, are not included in the reported values for the ORAU analyses.
[d]Reported as less than the minimum detectable activity (no values given).