

Return to: URFD 467-8

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

40-1341

PDR

October 22, 1982



Mr. R. Dale Smith
U.S. Nuclear Regulatory Commission
Uranium Recovery Field Office
Mail Stop SS 476
7915 Eastern Avenue
Silver Spring, Maryland 20910

Dear Mr. Smith:

In the Matter of)
Tennessee Valley Authority)

Docket No. 40-1341

EDGEMONT MILL - UNRESOLVED ITEM - 40-1341/82-01

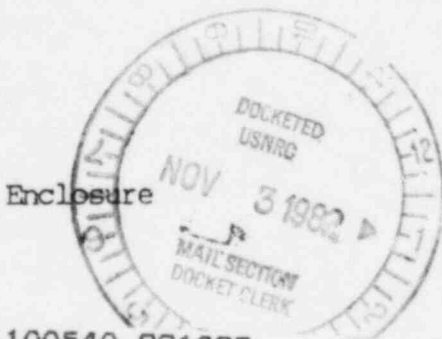
Enclosed is TVA's response to the unresolved item (40-1341/82-01, paragraph 5) of the June 16, 1982 letter to Thomas K. Donovan of TVA from Glen D. Brown of the NRC Region IV Office of Inspection and Enforcement. In subsequent discussions between our respective staffs concerning this item, it was agreed that the unresolved item, which was referred to as a seep area, would be handled in conjunction with the current overall decommissioning licensing activities. In addition, it was agreed that TVA would investigate the nature of the seep area by means of a monitoring program and provide our findings. This submittal presents both the results of our monitoring program and a proposal for a course of action to resolve this item.

If you have any questions concerning this matter, please get in touch with D. L. Lambert at FTS 858-2739.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing



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Add'l info

Mr. R. Dale Smith

October 22, 1982

cc (Enclosure):

Mr. John T. Collins
Regional Administrator
Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76012

Mr. Richard McLean
Building 4500N
Oak Ridge National Laboratory
Oak Ridge, Tennessee 37830

Mr. Gary Cummings, Mine Manager
Silver King Mines
P.O. Box 49
Edgemont, South Dakota

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ENCLOSURE

EDGEMONT MILL RESPONSE TO UNRESOLVED ITEM (40-1341/82-01)

The unresolved item was referred to in the June 16, 1982 letter from Glen D. Brown of Region IV Office of Inspection and Enforcement to Thomas K. Donovan of TVA as a potential migration of liquid of unknown composition from the mill site No. 7 tailings pond to areas outside the restricted area boundary (see attachment B, Figure B-1). This potential seep area was surveyed by TVA in 1976 and 1977 (see attachment A, tables A-1 - A-4). In addition, the seep area was described and data presented on it in the Ford, Bacon, and Davis Utah, Inc., May 1973 report, Engineering Assessment of Inactive Uranium Mill Tailings, Edgemont Site to the NRC (see section 3.4.5, page 3-10 and Figures 3-8 and 3-12). These sets of data did not indicate the existence of any significant hazard and therefore no immediate corrective action was required.

TVA did, however, undertake preventive actions at this time (1977) in the form of installing a French drain, collection ditch, and sump pumps at the site boundary in the Pond No. 7 area to intercept any additional seepage. The water levels in Pond No. 7 were lowered and have been kept as low as possible by the installation of an automatic pump in order to reduce the driving force for any future seepage. In addition, a diversion ditch on the east side of the mill site has recently been constructed to prevent runoff from coming onto the site. Since TVA had never operated the mill, it believes that operations before TVA's ownership had caused the seep and that by initiating the various remedial actions TVA has limited future seepage.

To specifically address the unresolved item, TVA initiated a monitoring program of the seep area as coordinated with your staff. This program included both chemical and radiological sampling of the seep area and similar control areas. Figure B-1 and B-2 of Attachment B show the general seep vicinity and the sampling locations and grid. The chemical analytical sampling results are presented in table B-1 of attachment B with samples CS-1 - CS-4 being grab samples taken from the seep area and CS-5 - CS-7 being control samples taken from similar alkaline areas. These results show the seep area to be somewhat elevated in terms of chemical constituents, but we believe not significantly since they are within the range of background.

The radiological monitoring consisted of both radium soil sampling and a gamma survey (PIC). The radium samples were from the same locations as the chemical samples and the results are reported in table B-2. The PIC survey consisted of a grid on 10-foot centers (with 5 readings at each grid point taken) set west of the mill fence designed to cover the seep area and approximately a 20-foot margin (Figure B-2) and is reported in table B-3, pages 1 through 19. These two sets of sampling results show that no applicable radiation regulations are exceeded but that elevated radiological levels do exist in the unrestricted seepage area adjacent to

the mill (total area affected is less than one acre as defined by the survey). Based on review of the situation, it is believed that the radiological levels in the seep area are such that they warrant some mitigative action be taken to remove the potential for exposure of members of the general public to radiation levels exceeding accepted radiation protection guidelines. Therefore, to remove this potential, TVA proposes isolation of this uninhabited area from the general public by fencing it and restricting access. Since the area in question is not owned by TVA, our approach will be to get in touch with the State of South Dakota Department of Health and inform them of the situation and then request permission from the land owner(s) to fence the area for an interim period. If permission cannot be reasonably obtained from the owner(s) for this purpose by TVA, assistance will then be requested from the State of South Dakota Department of Health.

In implementing this approach to limit access to the area by fencing it, it is planned that an area somewhat larger than the immediate seep area will be fenced; that the fenced area will basically be considered an extension of the restricted mill site boundary; and that the fence will remain in place until the cleanup of the seep area would be accomplished as a part of the overall decommissioning activity.

Based on discussions with your staff, TVA is proceeding with this approach and will assume concurrence of the NRC unless notified otherwise. Due to the lack of certainty regarding permission from the landowner(s), a specific date for when the fence will be erected is not known as yet; however, we are actively pursuing this matter and would hope to have it completed by November 11, 1982. You will be notified when a firm date and fence location becomes known.

ATTACHMENT A

RESULTS OF PREVIOUS TVA SAMPLES
TAKEN FROM THE POTENTIAL SEEⁿ AREA
WEST OF POND NO. 7

Table A-1

SOIL SAMPLES-EDGEMONT URANIUM MILL
JULY 29, 1976

<u>SAMPLE NO.</u>	<u>SAMPLING LOCATION^a</u>	<u>GROSS ALPHA (pCi/g)</u>	<u>GROSS BETA (pCi/g)</u>	<u>URANIUM (ug/g)</u>	<u>Th-230 (pCi/g)</u>	<u>Ra-226 (pCi/g)</u>
3	30 ft. N, 40 ft. W	42 ± 2 ^b	155 ± 2	4.3	9.0 ± 0.6	0.60 ± 0.03
4	60 ft. N, 40 ft. W	13 ± 1	59 ± 1	1.7	6.6 ± 0.5	0.28 ± 0.02
5	60 ft. N, 55 ft. W	9 ± 1	35 ± 1	0.5	1.2 ± 0.2	0.09 ± 0.01
6	150 ft. N, 10 ft. W	23 ± 1	107 ± 1	1.8	6.1 ± 0.5	0.17 ± 0.01

a. Relative to fence at site boundary at south end of a potential seep area west of Pond No. 7. Fence is near the intersection of Sundance Street and Taft Avenue.

b. The uncertainty reported is one standard deviation.

Note: Results are reported on a dry-weight basis.

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TABLE A-2

SOIL SAMPLES
EDGEMONT URANIUM MILL
NOVEMBER 16, 1976

<u>SAMPLING LOCATION-W OF POND NO. 7 NEAR "SEEP"</u>	<u>TOTAL URANIUM^a ($\mu\text{g/g}$)</u>	<u>Th-230^a (pCi/g)</u>	<u>Rn-226^a (pCi/g)</u>
SCOT-1 (10 ft. N of Sundance St., 15 ft. W of SB ^b)	2.4	16.9 \pm 2.0 ^c	24.3 \pm 2.6
SCOT-2 (30 ft. N of Sundance St., 55 ft. W of SB)	1.9	1.68 \pm 0.88	2.27 \pm 0.22
SCOT-3 (30 ft. N of Sundance St., 15 ft. W of S')	5.0	3.74 \pm 1.14	8.05 \pm 0.81
SCOT-4 (30 ft. N of Sundance St., 6 ft. W of SB)	25.5	12.6 \pm 2.4	8.97 \pm 0.71
SCOT-5 (60 ft. N of Sundance St., 55 ft. W of SB)	2.2	1.49 \pm 0.76	1.44 \pm 0.20
SCOT-6 (60 ft. N of Sundance St., 15 ft. W of SB)	2.9	2.41 \pm 1.09	3.86 \pm 0.34
SCOT-7 (60 ft. N of Sundance St., 6 ft. W of SB)	1.4	3.10 \pm 0.92	4.26 \pm 0.47
SCOT-8 (90 ft. N of Sundance St., 6 ft. W of SB)	2.1	10.2 \pm 3.1	7.11 \pm 0.48
SCOT-9 (150 ft. N of Sundance St., 6 ft. W of SB)	6.9	9.46 \pm 2.97	14.6 \pm 1.7
<u>CROSS-CHECKS (TVA)^d</u>			
SCOT-3 (30 ft. N of Sundance St., 15 ft. W of SB)	4.6	1.63 \pm 0.20	8.64 \pm 0.08
SCOT-6 (60 ft. N of Sundance St., 15 ft. W of SB)	3.2	3.12 \pm 0.28	3.09 \pm 0.05

a. Samples analyzed by Controls for Environmental Pollution, Inc.

b. SB = Site boundary

c. The uncertainty reported is the 1-sigma counting error.

d. Samples analyzed by TVA Laboratory Services.

Note: Results are reported on a dry-weight basis.

Table A-3

Vegetation Samples -
Edgemont Uranium Mill -
November 16, 1976

Sampling Location W of Pond 7 - "Seep" Area	Total Uranium ^a ($\mu\text{g/g}$)	Th-230 ^a (pCi/g)	Ra-226 ^a (pCi/g)
27 ft N of Sundance St. 15 ft W of SB ^b VCOT-1	2.8	4.94 \pm 1.76 ^c	5.0 \pm 0.8
54 ft N of Sundance St. 15 ft W of SB VCOT-2	3.8	1.28 \pm 0.63	1.42 \pm 0.53

a. Samples analyzed by Controls for Environmental Pollution, Inc.

b. SB = site boundary.

c. The uncertainty reported is the 1-sigma counting error.

NOTE: Results are reported on a dry-weight basis.

Table A-4

"Sediment" and "Surface Water" Samples -
Edgemont Uranium Mill -
August 18, 1977

<u>Sampling Location</u>	<u>Sediment Sample</u>		
	<u>Total Uranium</u> ($\mu\text{g/g}$)	<u>Th-230</u> (pCi/g)	<u>Ra-226</u> (pCi/g)
"Seep" area W of Pond 7	113.6	$0.20 \pm 0.11^{\text{a}}$	74.19 ± 0.24
	<u>Surface Water Sample</u>		
	(10^{-8} $\mu\text{Ci/mL}$)	(10^{-9} $\mu\text{Ci/mL}$)	(10^{-9} $\mu\text{Ci/mL}$)
"Seep" area W of Pond 7	b	b	4.59 ± 0.08

a. The uncertainty reported is the 1-sigma counting error.

b. Insufficient sample - container leaked in transit.

NOTE: These samples were collected as quality control samples in coordination with surveys conducted by Ford, Bacon and Davis Utah personnel as part of their studies for the Nuclear Regulatory Commission.

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ATTACHMENT B

RESULTS OF CURRENT (1982) TVA
SAMPLING OF THE POTENTIAL
SEEP AREA WEST OF POND NO. 7

Table B-1

Analytical Results of Samples Taken
From the Seep Area West of Pond No. 7
(Results Expressed as $\mu\text{g/g}$)

<u>Sample Identification*</u>	<u>Sample Location**</u>	<u>Arsenic</u>	<u>Selenium</u>	<u>Vanadium</u>
CS-1	P-7	4.4	4.8	200
CS-2	O-8	3.7	2.3	244
CS-3	M-3	3.2	2.0	163
CS-4	G-1	3.1	2.8	165
CS-5		3.2	1.5	75
CS-6		3.5	2.8	105
CS-7		3.6	3.8	88

Results obtained from Travis Laboratories, Rapid City, South Dakota.

*Samples CS-1 through CS-4 are taken from the seep area. Samples CS-5 through CS-7 are control samples.

**Sample location for CS-1 through CS-4 refers to the sampling grid shown on Figure B-2. Sample location for CS-5 through CS-7 are shown on Figure B-1.

Table E-2

Radium Soil Sample Results
 Regarding the Seep Area
 West of Pond No. 7

<u>Sample Identification*</u>	<u>Sample Location**</u>	<u>Radium pCi/g</u>	<u>Sigma Error Factor pCi/g</u>
RS-1	P-7	73.85	± 1.86
RS-2	O-8	71.63	± 0.46
RS-3	M-3	1.49	± 0.07
RS-4	G-1	7.46	± 0.13
RS-5		3.84	± 0.11
RS-6		5.07	± 0.12
RS-7		1.00	± 0.06

*Sample RS-1 through RS-4 are taken from the seep area and samples RS-5 through RS-7 are control samples.

**Sample location for RS-1 through RS-4 refer to the sampling grid shown on Figure B-2. Sample location for RS-5 through RS-7 are shown on Figure B-1.

Table B-3 (Pages 1-19)

GAMMA SURVEY RESULTS OF THE
SEEP AREA WEST OF POND NO. 7

Survey results were obtained using a Reuter-Stokes Pressurized Ionization Chamber (PIC).

Location for each sample refers to the grid shown on Figure B-2.

LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm	
		uR/hr	uR/hr			uR/hr	uR/hr			uR/hr	uR/hr
		MEAN	STD. DEV.			MEAN	STD. DEV.			MEAN	STD. DEV.
A-1	66.6 65 64.9 65.4 65.5	65.48	0.60	B-2	61.9 62.4 62.2 61.7 63	62.24	0.45	C-3	64 63.8 64.4 65.2 63	64.08	0.72
A-2	65.7 65.1 64.2 66 64.2	65.04	0.74	B-3	61.4 61.2 61.4 61.9 61.9	61.56	0.29	C-4	67.7 67.4 66.6 67.1 68.1	67.38	0.51
A-3	60.9 61.8 61.6 61.4 62.6	61.66	0.56	B-4	61.2 61 61.9 61.8 60.9	61.36	0.41	C-5	57.9 58.2 58.4 57.5 56.9	57.78	0.53
A-4	58 57.5 56.4 57.8 56.6	57.26	0.64	B-5	54.3 50.4 50 49.5 50.9	51.02	1.70	C-6	57.7 58.1 57.6 58.7 58.3	58.08	0.40
A-5	57.4 58.1 58.3 58.2 59.4	58.28	0.64	B-6	56.6 56.4 56.6 57.4 57.6	56.92	0.48	C-7	49.7 49.5 50.9 51.8 54	51.18	1.64
A-6	55.1 54.9 54.8 55.4 55.9	55.22	0.40	C-1	59.3 60.1 60.2 60.3 59.8	59.94	0.36	D-1	55.8 57.9 63.5 61 60.5	59.74	2.62
B-1	63.6 63.4 63.5 63.6 63.7	63.56	0.10	C-2	61.4 61.7 61.2 62.1 61.4	61.56	0.31	D-2	62.8 64.5 63.1 62.3 62.3	63.00	0.81

LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±	
		uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.
D-3	61 59.7 61.3 62.2 59.4	60.72	1.04	E-3	60.2 60.7 60 61.3 61.2	60.68	0.52	F-3	59 60.2 60 60.6 59.4	59.64	0.91
D-4	60 62.9 64.3 63.5 62.4	62.62	1.46	E-4	65.2 64.1 64 63.9 65.4	64.52	0.64	F-4	67.2 67.2 68.1 67.6 68.6	67.74	0.54
D-5	60.2 58.8 62 56.9 55.7	58.72	2.25	E-5	59.9 60.3 60 59.6 62.2	60.40	0.93	F-5	67.6 65.9 64.9 63.4 64	65.16	1.48
D-6	54.8 52.9 56.3 55.3 57.6	55.38	1.57	E-6	58.4 59.9 60.4 58.2 58.4	59.06	0.91	F-6	62.2 63.7 63.2 64 64.5	63.52	0.78
D-7	55.9 56.6 54.5 56 55	55.60	0.75	E-7	56.8 55.6 55.4 56.1 57	56.18	0.63	F-7	58.2 58 56.4 58.8 56.6	58.00	0.75
E-1	53.6 59.9 59.8 56.3 57.6	57.44	2.35	F-1	54.8 56.3 59.7 62.3 62.6	59.54	2.86	F-8	62.2 59.6 58.7 61.2 60.3	60.40	1.22
E-2	59.6 57.8 59.5 58.7 58.5	58.82	0.67	F-2	60.9 52.8 60.2 62 60.6	60.50	1.04	F-9	63.9 63.8 63.7 67 65.2	64.72	1.26

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LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD. DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD. DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD. DEV.
6-1	54.4 53	53.90	0.57	E-8	69.8 68.7 70.1 72.2 69.3	69.82	1.29	H-6	134.4 134.7 135.2 131.0 132.5	133.74	1.30
6-2	51.7 52.1 52.7 53.7 52.6	52.56	0.67	E-9	73.6 75.2 77.3 74.6 74.0	75.10	1.22	H-7	96.5 95.2 98.2 96.3 96.2	96.48	0.97
E-3	62 63.9 62.6 64 63.4	63.18	0.77	H-1	57.2 57.3 58.2 58.6 58.1	57.85	0.54	H-8	67.3 64.6 66.2 66.5 66.5	66.22	0.89
6-4	92.2 88 87.5 88.2 87.2	88.62	1.82	H-2	58.5 58 57.7 58.8 59.2	58.44	0.54	H-9	55.9 58.3 56.7 55.4 55.7	56.00	0.46
E-5	124.6 124.2 123.8 122.4 123.2	123.64	0.77	H-3	66 65.1 66.2 66.4 65.9	65.92	0.44	I-1	59.3 58.8 58.7 59.2 57.6	58.72	0.60
E-6	86.6 86 85.9 83.7 86.5	85.74	1.06	H-4	91.4 91.3 92.4 91.3 90.7	91.42	0.55	I-2	55.9 55.9 53.7 54.2 53.9	54.72	0.98
6-7	68.8 68.4 67.2 71.7 71.8	69.58	1.85	H-5	246 253 256 253 249	251.40	3.50	I-3	67.7 69.4 67.4 65 66.8	67.26	1.42

LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.
I-4	94.5 95.7 96.4 95.6 94.5	95.34	0.74	J-3	60.6 60.7 61.3 61.7 62.5	61.36	0.70	K-2	53 54.8 55.7 55.7 55.2	54.76	0.93
I-5	246 246 244 248 248	246.40	1.50	J-4	68.8 73.4 72.8 70.5 71.2	71.34	1.65	K-3	59 59.2 57.6 58 58.6	58.48	0.60
I-6	116.8 115.5 114.5 115.4 114.9	115.42	0.78	J-5	99.2 99.5 99.7 98.8 98.9	99.22	0.34	K-4	60.7 60.2 61.3 60.5 60.4	60.62	0.38
I-7	73.9 74.5 74.7 74.9 75.3	74.66	0.46	J-6	79.8 79.1 78.5 79.1 79.3	79.16	0.42	K-5	80 80.8 81.5 81 81.6	80.98	0.57
I-8	60.9 61.5 63.6 62.9 63	62.38	1.01	J-7	52.4 51.6 50.1 51.1 50.7	51.18	0.78	K-6	70.9 71.9 71.4 71.7 73	71.78	0.70
I-9	53.5 52.3 51.9 51 51.3	52.00	0.88	J-8	47.3 46.1 47.4 46.8 46.8	46.88	0.46	K-7	50.6 52.2 53.4 52.7 51.8	52.14	0.94
J-1	55.7 55.3 54.7 54.8 55	55.10	0.36	J-9	50.7 52.5 52.2 51.1 51.6	51.62	0.67	K-8	54.4 53 53.4 54.2 53.3	53.66	0.54
J-2	57.7 57.2 56.5 56.1 56.2	56.74	0.62	K-1	55.5 55.5 55.4 56.4 56.3	55.82	0.44	K-9	48.7 48.2 47.6 47.2 46.1	47.56	0.69

LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±	
		uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.
L-1	49.5 49 49.4 49 49.2	49.22	0.20	L-9	40.1 39.4 40.2 38.9 39.4	39.60	0.49	M-8	54 54.1 54.5 53.1 53.1	53.76	0.56
L-2	57 57.1 57.3 56.8 57.1	57.06	0.16	M-1	48.7 49.3 46.4 48.9 48.3	48.72	0.36	M-9	51.4 51.9 52.2 51.7 51.6	51.76	0.27
L-3	57.2 56.8 55.9 56.8 56.4	56.62	0.44	M-2	58.7 59.7 59.6 59.9 59.3	59.44	0.42	N-1	53.6 53.5 52.7 52.4 50.7	52.58	1.05
L-4	54.6 58.7 39.4 58.5 58.4	57.92	1.70	M-3	56.6 56.4 56.6 56.4 56.4	56.48	0.10	N-2	47.8 47.7 47.7 47.1 46.8	47.42	0.40
L-5	79.9 83.1 83.2 82.5 82.7	82.28	1.22	M-4	55.5 55.7 57.1 56.9 56.7	56.38	0.65	N-3	56.2 55.7 56.2 56.1 55.7	55.98	0.23
L-6	73.6 73.4 73.1 72.6 72.4	73.02	0.46	M-5	66.8 68.5 67.4 67.5 67.6	67.56	0.55	N-4	53.9 54.2 54 54 54.5	54.12	0.21
L-7	58.1 58.8 58.2 59.1 58.6	58.56	0.37	M-6	87.5 86.9 84.5 83 82.6	84.90	1.99	M-5	52.9 51.5 51.8 50.8 51.1	51.62	0.72
L-8	45.5 46.1 45.3 44.5 44.7	45.22	0.57	M-7	60.9 59.9 60.3 61.2 61.7	60.80	0.64	N-6	100.6 100.7 100.1 99.9 101.1	100.48	0.43

								Page 6			
		±				±				±	
LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.
N-7	94.5 93.4 92.2 93 93.6	93.34	0.75	0-5	61.2 60.5 61.3 60.7 60.4	60.82	0.37	P-2	56.2 57.8 57.2 56.7 56.5	56.88	0.56
N-8	53 50.3 45.8 45.2 49.9	48.84	2.93	0-6	82.5 80.7 79.9 79.8 70.4	80.26	1.34	P-3	62.5 61 61 60.9 62.5	61.58	0.71
N-9	45.5 45.7 46.5 47.3 47.5	46.50	0.81	0-7	131.2 132 134.5 135.5 137.6	134.16	2.33	P-4	59.1 59.9 59.8 59.6 59.5	59.58	0.28
N-10	46.4 47 47 48.1 47.3	47.16	0.55	0-8	65.7 69.7 70.4 69.9 70	69.14	1.74	P-5	63.1 63.2 63.5 63.6 63.8	63.44	0.26
0-1	53.8 53.4 54.4 54.3 55.6	54.30	0.74	0-9	49.5 49.9 50.7 50 50.7	50.16	0.47	P-6	96.2 97.1 96.5 95.3 96.2	96.26	0.58
0-2	51.1 50 50.5 50.9 51.4	50.78	0.49	0-10	45.5 46.8 47.6 48.1 47	47.00	0.88	P-7	254 253 255 252 254	253.60	1.07
0-3	57.7 57.8 57.7 56.5 57.4	57.82	0.37	0-11	42.1 42.6 43.1 43.3 42.2	42.66	0.48				
0-4	52.7 51.7 50.6 49.7 49.6	50.86	1.19	P-1	59.8 59.2 58.7 58.7 59.2	59.12	0.41				

LOCATION	±			LOCATION	±			LOCATION	±		
	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.		uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.		uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.
P-8	74.5			Q-5	61			R-1	59.2		
	73.9				60.9				59.6		
	73.4	73.66	0.49		60.9	60.88	0.10		59.7	59.58	0.23
	73.1				60.9				59.5		
	73.4				60.7				59.9		
P-9	51.5			Q-6	74			R-2	59		
	51.4				73				56.9		
	50.7	51.22	0.32		73.1	73.24	0.38		57.1	57.14	0.98
	51				73.1				56.2		
	51.5				73				56.5		
P-10	48.2			Q-7	142.7			R-3	56.2		
	47.7				141.9				56.9		
	48.1	47.74	0.39		141.3	142.98	1.46		56.1	56.44	0.47
	47.1				143.5				55.9		
	47.6				145.5				57.1		
P-11	43.2			Q-8	50.5			R-4	62.5		
	42.2				50.9				62.6		
	43	42.86	0.36		51.5	51.08	0.59		62.1	62.38	0.23
	43.1				50.5				62.6		
	42.8				52				62.1		
Q-1	63.7			Q-9	47.5			R-5	62.4		
	64				48.2				61.7		
	64	64.18	0.41		47.6	48.06	0.57		60.7	61.54	0.68
	64.3				47.9				60.8		
	64.9				49.1				62.1		
Q-2	55.1			Q-10	42			R-6	65.1		
	55.8				41				64.8		
	55.7	55.72	0.35		42.7	42.12	0.61		64.5	64.58	0.44
	55.8				42.3				63.8		
	56.2				42.6				64.7		
Q-3	61.9			Q-11	47.6			R-7	62.5		
	61.7				48				62.7		
	61.2	61.68	0.25		49.3	48.30	0.56		62	62.74	0.59
	61.8				48.3				62.7		
	61.8				48.3				63.8		
Q-4	59.2							R-8	55.1		
	60.1								56		
	58.9	59.68	0.52						55.1	55.24	0.40
	60.1								55.2		
	60.1								54.8		

LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±	
		uR/hr MEAN	uR/hr STD. DEV.			uR/hr MEAN	uR/hr STD. DEV.			uR/hr MEAN	uR/hr STD. DEV.
R-9	49.2 50.1 49.7 49.3 49.5	49.56	0.32	S-5	62.6 62.4 63.8 63.9 63.4	63.22	0.61	T-1	59.3 59.8 60.3 60.5 59.7	59.92	0.43
R-10	45.1 45.1 45.2 45.9 46.3	45.52	0.49	S-6	70.3 70.2 70 70.2 70.6	70.26	0.20	T-2	49.2 49.2 49.4 48.7 49.9	49.28	0.39
R-11	41.2 40.5 39.9 39.3 39.8	40.14	0.65	S-7	56.9 57.8 58.2 58.9 58.5	58.06	0.68	T-3	49.9 49.3 49.1 49.3 50	49.52	0.36
R-12	47.3 46 45.3 45.5 46.2	46.06	0.70	S-8	49.9 50.1 49.5 50.1 50	49.92	0.22	T-4	52.7 52.4 54.2 54.5 54.6	53.88	0.72
S-1	53.5 54.5 56.4 55.5 56.2	55.22	1.09	S-9	46.7 46.9 47.3 47.5 47.5	47.18	0.32	T-5	55 54.8 53.5 53 53.1	53.88	0.85
S-2	53 51.8 52.7 54.7 54	53.24	1.01	S-10	41.8 41.6 40.9 41.4 42	41.54	0.38	T-6	66.9 65.4 65.6 65.5 65.3	65.74	0.59
S-3	49.2 48.8 48.5 48.4 48.7	48.72	0.28	S-11	44.9 45.5 45.3 45.1 45.4	45.24	0.22	T-7	58.2 59.6 59.5 60.5 60.7	59.70	0.89
S-4	60.9 61.2 61.4 62.4 62.2	61.62	0.58	S-12	43.2 44.4 43.8 43.4 43.5	43.66	0.42	T-8	51.2 50.3 51.6 51.9 52	51.40	0.62

LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±	
		uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.
T-9	42.1 40.5 40.9 40.9 41.3	41.14	0.54	U-4	57.8 57.9 58.5 58.5 58	58.14	0.30	U-12	43.3 43 42.9 42 42.7	42.78	0.44
T-10	38.8 39.2 38.6 38.5 38.4	38.70	0.28	U-5	56.7 56.5 56.6 56.7 56.8	56.66	0.10	U-13	44.9 45.4 45.2 44.1 44.3	44.78	0.50
T-11	38.2 38.5 39.1 38.3 37.5	38.32	0.52	U-6	61.2 60.9 61.2 60.9 60.4	60.92	0.29	V-1	55.5 54.8 54.6 55.1 54.6	54.92	0.34
T-12	40.6 40.2 40.8 41.2 40.9	40.74	0.33	U-7	74.1 73 74.8 74.1 74	74.00	0.58	V-2	54.6 53.1 53.3 53 53	53.40	0.61
T-13	44.8 44.6 44.4 45 44.3	44.62	0.26	U-8	56.2 56.4 56.2 55.9 55.3	56.00	0.38	V-3	55.9 56.2 55.7 55.8 56.7	56.06	0.36
U-1	52.3 52.8 52 51.4 51.4	51.98	0.54	U-9	41.4 41.3 40.6 40.9 41.6	41.16	0.36	V-4	57.6 57.5 57.5 57 56.8	57.28	0.32
U-2	49.7 49.2 48.8 48.7 48.5	48.98	0.43	U-10	39.9 38.5 37.9 38.2 38.3	38.56	0.70	V-5	56.1 55.3 56 56.3 55.4	55.82	0.40
U-3	49 48.5 48.4 48.2 47.8	48.38	0.39	U-11	44.1 44.4 44.6 44.5 44.8	44.48	0.23	V-6	54.4 54.2 54.4 54.9 54.8	54.54	0.27

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LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm	
		uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.
V-7	56.4 56.3 56.8 56.7 55.6	56.36	0.42	W-2	51.1 51.8 51.2 51.6 51.6	51.46	0.27	W-10	45.4 45.3 44.8 45.1 45.2	45.16	0.21
V-8	52.5 52.8 52.7 52.5 52.6	52.62	0.12	W-3	57.5 57.9 57.1 58.7 58.2	57.88	0.55	W-11	43.3 42.1 42.5 43 42.7	42.72	0.41
V-9	49.7 50.5 50.1 49.7 50.7	50.14	0.41	W-4	56.6 55.6 55 55.7 56.2	55.82	0.55	W-12	42.7 43.4 42.9 43.5 44	43.30	0.46
V-10	45.3 45.3 45.5 40.9 44.5	44.30	1.73	W-5	51.8 52.3 52.6 51.5 51.9	52.02	0.39	W-13	40.1 41.1 42.3 41.6 41.7	41.36	0.74
V-11	39.1 39 38.6 39.6 39.5	39.16	0.36	W-6	54.3 55.7 55.6 55.5 55.7	55.36	0.54	X-1	55 54.8 54.7 54.1 54.2	54.56	0.35
V-12	44.2 41.6 42.2 41.8 41.7	42.30	0.97	W-7	55.2 55.2 54.3 53.7 54.8	54.64	0.57	X-2	54.3 53.7 54.3 54 53.2	53.90	0.41
V-13	43.9 43.4 44.4 43.5 42.2	43.48	0.73	W-8	54.6 54.6 54.3 54.2 54.5	54.44	0.16	X-3	60.5 60.1 59.5 59.7 59.8	59.94	0.33
W-1	54 53.5 53.7 53.7 54.3	53.84	0.28	W-9	47.6 45.6 44.2 44.4 44.5	45.26	1.27	X-4	55.5 55.8 56 55.7 55.6	55.76	0.16

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LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±		LOCATION	uR/hr READING	±	
		uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.
I-5	54.6	54.34	0.17	I-13	41.6	42.36	0.60	Y-8	48.5	49.16	0.41
	54.4				41.7				49		
	54.2				42.7				49.6		
	54.4				42.7				49.6		
	54.1				43.1				49.1		
I-6	55.5	55.22	0.37	Y-1	53.5	52.96	0.61	Y-9	45.2	44.96	0.44
	54.8				53.8				44.8		
	55.3				52.7				44.2		
	55.7				52.1				45.5		
	54.8				52.7				45.1		
I-7	50.2	51.24	0.55	Y-2	55	54.94	0.21	Y-10	47.6	47.40	0.34
	51.2				54.8				47.4		
	51.5				54.7				47.9		
	51.8				54.9				47.2		
	51.5				55.3				46.9		
I-8	52.5	51.20	0.81	Y-3	59.1	58.18	0.67	Y-11	40.7	40.22	0.49
	51.5				58.1				40.8		
	50				57.1				40.2		
	51.1				58.6				39.9		
	50.9				58				39.5		
I-9	47.5	46.90	0.58	Y-4	59.1	59.12	0.26	Y-12	43.7	44.20	0.40
	47.7				59.1				44.1		
	46.5				58.8				44.5		
	46.3				59				43.9		
	46.5				59.6				44.8		
I-10	48.8	49.10	0.57	Y-5	53.3	54.14	0.48	Y-13	44	44.90	0.54
	48.6				54.5				45.1		
	48.9				54.7				45.4		
	49				54				45.4		
	50.2				54.2				44.6		
I-11	46	46.16	0.61	Y-6	50.2	50.60	0.21	Z-1	53.2	53.12	0.28
	46.4				50.6				53.1		
	47.2				50.8				52.6		
	45.8				50.7				53.3		
	45.4				50.7				53.4		
I-12	44.7	45.34	0.37	Y-7	47	47.62	0.46	Z-2	52.2	52.02	0.32
	45.6				47.4				52.3		
	45.3				48.1				52		
	45.3				47.4				51.4		
	45.8				48.2				52.2		

LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.
Z-3	49.5 50.3 48.6 49 49.1	49.30	0.58	Z-11	45.5 45.3 45.6 45.5 44.8	45.34	0.29	AA-6	52.6 51.9 50.7 51.6 50.9	51.54	0.69
Z-4	49.2 50.3 50.2 49.8 50.6	50.02	0.48	Z-12	41.4 41.6 42.3 41.7 41	41.60	0.42	AA-7	47.6 47.7 47.2 47.6 49.2	47.86	0.69
Z-5	55.3 55.4 56.4 55.9 56.5	55.90	0.49	Z-13	44.9 45.2 45.5 45.1 44.7	45.08	0.27	AA-8	52.8 52.4 53.4 53 53.1	52.94	0.33
Z-6	46.4 46.7 45.1 46.7 47.3	46.44	0.73	AA-1	55 54.4 55 53 54.1	54.30	0.74	AA-9	45.9 45.7 45.1 45.2 46.6	45.70	0.54
Z-7	49 47.4 46.9 47.2 47.5	47.60	0.73	AA-2	61.2 61.1 60.7 61.1 60.6	60.94	0.24	AA-10	42.8 42.6 42.1 42.8 43.3	42.72	0.39
Z-8	47.1 46.2 47.7 47.5 47.8	47.26	0.58	AA-3	52.6 51.8 52 51.5 52	51.98	0.36	AA-11	46.6 46.1 46.2 45.4 46.2	46.10	0.39
Z-9	50 49.6 51.8 51 50.7	50.62	0.77	AA-4	53.2 54.2 54.7 55.5 56.5	54.82	1.12	AA-12	42.6 43.1 42.8 41.9 42.6	42.60	0.39
Z-10	47.7 47.5 48.6 47.3 47.2	47.66	0.50	AA-5	54.6 54.8 54.7 54.9 55.1	54.82	0.17	AA-13	38.9 38.2 40.2 39.3 38.6	39.04	0.66

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LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm	
		uR/hr MEAN	uR/hr STD. DEV.			uR/hr MEAN	uR/hr STD. DEV.			uR/hr MEAN	uR/hr STD. DEV.
BB-1	54.7	54.94	0.33	BB-9	48.9	49.08	0.39	CC-4	51.6	51.56	0.16
	55.1				49.2				51.8		
	55.5				48.5				51.6		
	54.6				49.7				51.3		
	54.6				49.1				51.5		
BB-2	61.3	61.62	0.42	BB-10	50.4	49.74	0.60	CC-5	47.6	47.82	0.28
	60.7				49.5				47.9		
	61				48.7				47.8		
	61.8				50				47.5		
	63.3				50.1				48.3		
BB-3	51.2	52.30	0.97	BB-11	45.7	46.42	0.45	CC-6	54	53.34	0.59
	51.3				46.9				53.9		
	52.5				46.8				53		
	52.7				46.1				52.4		
	53.8				46.6				53.4		
BB-4	58.7	58.46	0.53	BB-12	42.3	43.14	0.52	CC-7	50.2	50.58	0.40
	59				43				51		
	58.3				43.4				50.8		
	57.5				43.9				50		
	58.8				43.1				50.9		
BB-5	56	55.50	1.01	BB-13	43.2	43.02	0.35	CC-8	48.8	49.74	0.49
	57.2				43.2				50.2		
	55.2				42.9				49.9		
	54.4				42.4				49.8		
	54.7				43.4				50		
BB-6	52.5	52.22	0.23	CC-1	54	53.90	0.32	CC-9	51.8	52.06	0.22
	51.8				53.7				52.2		
	52.3				53.4				52.4		
	52.3				54.1				52		
	52.2				54.3				51.9		
BB-7	45.2	45.12	0.31	CC-2	53.8	54.14	0.23	CC-10	51	50.70	0.19
	45				54.5				50.8		
	44.6				54.2				50.7		
	45.5				54.2				50.5		
	45.3				54				50.5		
BB-8	44.8	44.30	0.46	CC-3	55.4	56.16	0.45	CC-11	46.7	48.70	0.11
	44.8				56				48.8		
	43.6				56.6				48.5		
	44				56.6				48.8		
	44.3				56.2				48.7		

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LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm	
		uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.
CC-12	42.5			DD-8	46.4			EE-4	58.9		
	42.6				46.6				57.2		
	41.9	42.58	0.55		46.3	46.34	0.41		57	57.64	0.67
	42.2				46.8				57.4		
	43.5				45.6				57.7		
DD-1	64.6			DD-9	52.8			EE-5	54.2		
	64.4				52.2				52.6		
	65.5	65.10	0.59		51.9	52.06	0.41		53	53.54	0.75
	66				51.7				53.3		
	65				51.7				54.6		
DD-2	63.1			DD-10	47.1			EE-6	48.7		
	65.2				47.8				49.6		
	65.1	64.10	0.88		48.8	48.22	0.67		48.4	48.70	0.48
	63.7				48.8				48.2		
	63.4				48.6				48.6		
DD-3	61.5			DD-11	43.8			EE-7	47.4		
	61				44.6				47.6		
	62.3	62.02	0.67		43	43.60	0.58		48.2	47.46	0.55
	62.5				43.1				47.6		
	62.8				43.5				46.5		
DD-4	54.2			DD-12	45.4			EE-8	51.6		
	56				44.6				49.6		
	55.4	54.90	0.74		44.9	44.88	0.29		49.8	50.52	0.86
	54				44.9				51.5		
	54.9				44.6				50.1		
DD-5	56.7			EE-1	59.8			EE-9	52.5		
	56.9				58.8				52.9		
	57	56.60	0.36		59.3	59.18	0.47		52.4	52.58	0.19
	58				58.5				52.7		
	56.4				59.5				52.4		
DD-6	50.5			EE-2	61.8			EE-10	43.5		
	50.3				60.9				42.9		
	50.4	50.74	0.42		61	61.14	0.36		42.2	43.48	0.86
	51.3				60.8				44.3		
	51.2				61.2				44.5		
DD-7	50.9			EE-3	60.4			EE-11	45.7		
	50.6				59.9				44.8		
	50.5	50.32	0.48		60.2	60.06	0.33		45.4	45.38	0.40
	49.5				59.5				45.1		
	50.1				60.3				45.9		

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LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm	
		uR/hr	uR/hr			uR/hr	uR/hr			uR/hr	uR/hr
		MEAN	STD.DEV.			MEAN	STD.DEV.			MEAN	STD.DEV.
EE-12	47.1 46.2 46.5 46.4 46	46.44	0.37	FF-8	43.8 44.4 44.2 42.9 43.3	43.72	0.56	66-4	49.2 50.4 50.1 50.5 51.2	50.28	0.65
FF-1	60.4 60.8 60.4 61.1 60.9	60.72	0.28	FF-9	51.1 51.6 51.2 50.7 50.8	51.06	0.32	66-5	52.7 52.2 52.5 53 52.7	52.62	0.26
FF-2	61.2 60.7 61.5 61.7 61.3	61.28	0.34	FF-10	49.8 49.5 50.6 50 49.7	49.92	0.38	66-6	51.2 50.2 50.3 50.1 49.7	50.30	0.49
FF-3	61.5 61.5 62.2 61.8 61.9	61.78	0.26	FF-11	48 47.1 47.2 47 47.1	47.28	0.37	66-7	56.1 54.8 54.7 55.3 54.6	55.10	0.55
FF-4	49.3 49.9 49.6 54.9 48.9	50.52	2.21	FF-12	43.7 43.8 43.3 42.8 43.2	43.36	0.36	66-8	46.5 47 46.5 45.5 45.7	46.24	0.56
FF-5	54.4 54.6 54.4 54.3 53.7	54.28	0.31	66-1	57.4 56.4 57.1 56.9 55.5	56.66	0.67	66-9	52.1 52 51.5 51 50.7	51.46	0.55
FF-6	45 42.5 43.4 44.2 45	44.02	0.96	66-2	55.1 54 55.6 55.6 55.3	55.12	0.59	66-10	50.9 51.3 50.5 51.3 50.6	50.92	0.3
FF-7	51.2 51.7 51.7 51.8 51.4	51.56	0.22	66-3	59.6 58.4 58.2 58.7 58.8	58.94	0.42	66-11	48.9 48.4 49 47.9 49.1	48.66	0.47

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LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD.DEV.
HH-1	61.9	61.16	0.65	HH-9	51.3	50.70	0.84	II-6	55	55.12	0.32
	61.7				51				54.8		
	61.3				51.4				55.7		
	60.1				50.7				55.2		
	60.8				49.1				54.9		
HH-2	51.7	51.54	0.40	HH-10	51.6	51.18	0.34	II-7	56.1	54.66	0.97
	52.2				51.5				55		
	51.4				50.9				54.7		
	51				50.7				53.1		
	51.4				51.2				54.4		
HH-3	61.3	60.42	0.86	HH-11	50.5	49.78	0.48	II-8	51.1	51.52	0.29
	61.1				50.1				51.3		
	60.9				49.1				51.6		
	59.1				49.5				51.9		
	59.7				49.7				51.7		
HH-4	51.6	52.06	0.23	II-1	63.3	62.24	0.70	II-9	51	51.50	0.44
	52.2				62.7				51.2		
	52.2				62.1				51.8		
	52.2				61.8				52.2		
	52.1				61.3				51.3		
HH-5	53.7	53.82	0.40	II-2	55	54.56	0.33	II-10	54.3	54.36	0.14
	54.1				54.7				54.3		
	54.2				54.8				54.2		
	54				54.3				54.4		
	53.1				54.1				54.6		
HH-6	51.7	50.96	0.48	II-3	62.6	62.54	0.60	II-11	51.9	50.84	0.62
	50.6				63				50		
	51.3				63.3				50.6		
	50.8				62.2				50.8		
	50.4				61.6				50.9		
HH-7	56.3	56.40	0.49	II-4	52.1	51.32	0.51	JJ-1	60.6	58.58	1.20
	56				51.7				59.3		
	57.1				51.1				57.7		
	55.8				51				57.5		
	56.8				50.7				57.8		
HH-8	45.4	46.06	0.56	II-5	55.3	55.48	0.37	JJ-2	54.4	54.42	0.45
	45.5				55.7				55.1		
	46				54.9				54.7		
	46.8				55.5				53.8		
	46.6				56				54.1		

LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD. DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD. DEV.	LOCATION	uR/hr READING	uR/hr MEAN	uR/hr STD. DEV.
JJ-3	61.7 62.2 62.1 62.1 62.7	62.16	0.32	JJ-11	52.2 51.6 52.4 52.4 52.6	52.24	0.34	KK-8	46.6 46.4 47.1 47.1 46.2	46.68	0.31
JJ-4	52.1 51.7 51.2 50 51.7	51.34	0.73	KK-1	54.6 53.9 52 52.3 52.1	52.98	1.06	KK-9	47.5 47.3 46.9 46.1 46.5	46.86	0.51
JJ-5	55.8 55.6 54.1 54.7 54.1	54.86	0.72	KK-2	53.7 53.2 53.5 53.3 52.1	53.16	0.56	A-0	55.9 57.1 57.5 58.1 57.6	57.24	0.74
JJ-6	56.7 57.1 56.1 55.6 55.8	56.26	0.56	KK-3	60.2 60.7 60.1 60.7 59.9	60.32	0.32	B-0	48.6 47.2 46.6 45.5 46.3	46.64	1.04
JJ-7	54.6 54.4 54.7 55.7 55.5	54.98	0.52	KK-4	58.2 58.6 59 58.4 58.7	58.58	0.27	C-0	52.7 52.3 51.5 51.9 51.7	52.02	0.43
JJ-8	51.4 50.6 51.6 51.3 50.7	51.12	0.40	KK-5	49.2 48.5 48.4 48.5 48.7	48.66	0.29	D-0	54.8 54.6 55 56.3 54.7	55.08	0.62
JJ-9	52.4 52.2 52.9 51.9 52.5	52.38	0.33	KK-6	45.6 45 45.2 46 45.8	45.52	0.37	E-0	57.6 58.5 57.7 58.4 57.9	58.02	0.37
JJ-10	50.4 51.2 51 51.6 50.7	50.98	0.41	KK-7	47.5 46 46.3 46 46.7	46.50	0.56	F-0	53.5 53.1 52.8 53.3 52.7	53.08	0.30

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LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm		LOCATION	uR/hr READING	\pm	
		uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.			uR/hr MEAN	uR/hr STD.DEV.
G-0	49.4 47.8 48.6 47.3 48.4	48.30	0.72	D-0	63.5 64.9 64 64.5 63.9	64.16	0.49	M-0	59.2 58.7 59.4 58 55.8	58.22	1.30
H-0	56.2 55.8 55.1 55.2 53.8	55.22	0.82	P-0	57.5 58.2 59.3 59.3 58.4	58.54	0.69	X-0	56.5 55.9 54.8 55.1 55.5	55.56	0.60
I-0	55.7 55.4 55 54.5 54.8	55.08	0.43	Q-0	55.4 55.9 54.8 54 53.6	54.74	0.85	Y-0	61.7 62.3 63.2 65.2 63.5	63.18	1.20
J-0	61.4 61.8 62.1 62.7 63.2	62.24	0.64	R-0	61.8 62.2 62.6 61.2 60.7	61.70	0.68	Z-0	55.2 56 56.6 57 57.2	56.40	0.73
K-0	57.7 59.6 59.4 58.6 60.6	59.18	0.98	S-0	57.5 57.4 57.1 56.8 57.2	57.20	0.24	AA-0	50.8 48.8 48.9 49.1 48.8	49.28	0.77
L-0	49.9 47.2 46.4 46.3 46.2	47.20	1.40	T-0	63.4 63.7 63.7 63 64.6	63.68	0.53	BB-0	56.2 56.4 55.4 56.1 56.4	56.10	0.37
M-0	56.4 55.8 56.1 55.7 54.6	55.72	0.61	U-0	58.5 59.6 59.8 60.8 60.3	59.80	0.77	CC-0	57.9 58.6 58.6 57.5 56.8	57.88	0.69
N-0	62.4 62.5 62.5 61.9 62.2	62.30	0.23	V-0	51.9 51.4 51.7 51.4 52.1	51.70	0.28	DD-0	57.8 58.4 58.3 59.1 57.8	58.28	0.48

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LOCATION	±		LOCATION	uR/hr MEAN
	uR/hr READING	uR/hr MEAN STD. DEV.		
EE-0	59.6	60.24 0.58	E-8	59.0
	60.3		E-9	45.6
	59.9		E-10	43.6
	60.1		E-11	43.4
	61.3		F-10	42.8
FF-0	54.2	53.94 0.32	F-11	45.7
	54		C-10	43.2
	53.8		G-11	38.0
	54.3		H-10	42.9
	53.4		H-11	44.3
GG-0	59.7	59.14 0.63	I-10	39.8
	60		I-11	44.5
	59.1		J-10	44.8
	58.4		J-11	43.0
	58.5		K-10	43.4
HH-0	65.9	66.36 0.48	K-11	38.9
	66		L-10	45.7
	66.6		L-11	39.8
	67.2		M-11	40.6
	66.1			
II-0	59.8	60.18 0.55		
	60.6			
	59.5			
	61			
	60			
JJ-0	51.4	50.76 0.66		
	50.7			
	49.6			
	50.7			
	51.4			
KX-0	51.6	52.28 0.43		
	52.5			
	52.3			
	52.1			
	52.9			

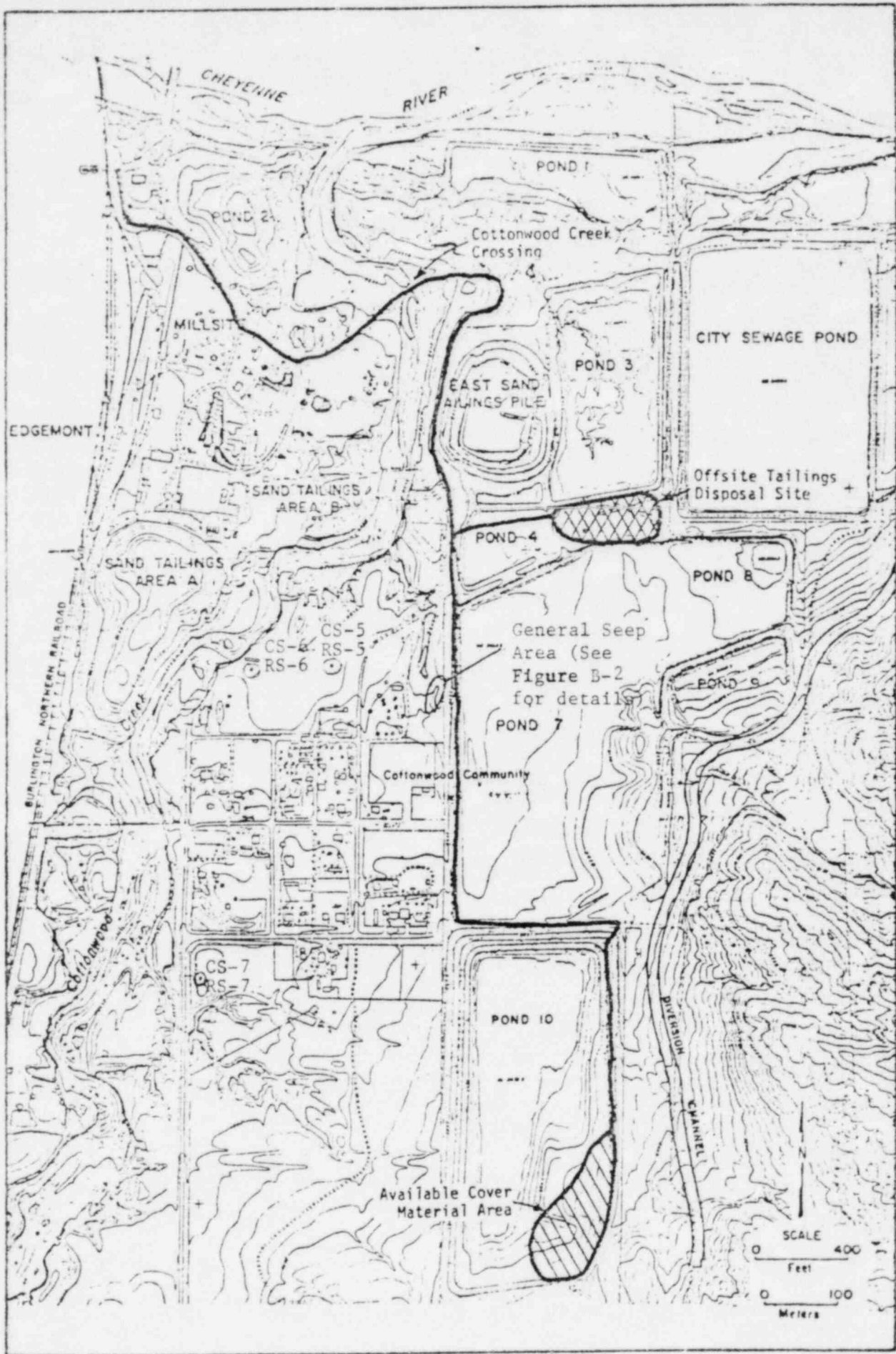


FIGURE B-1 MILL SITE

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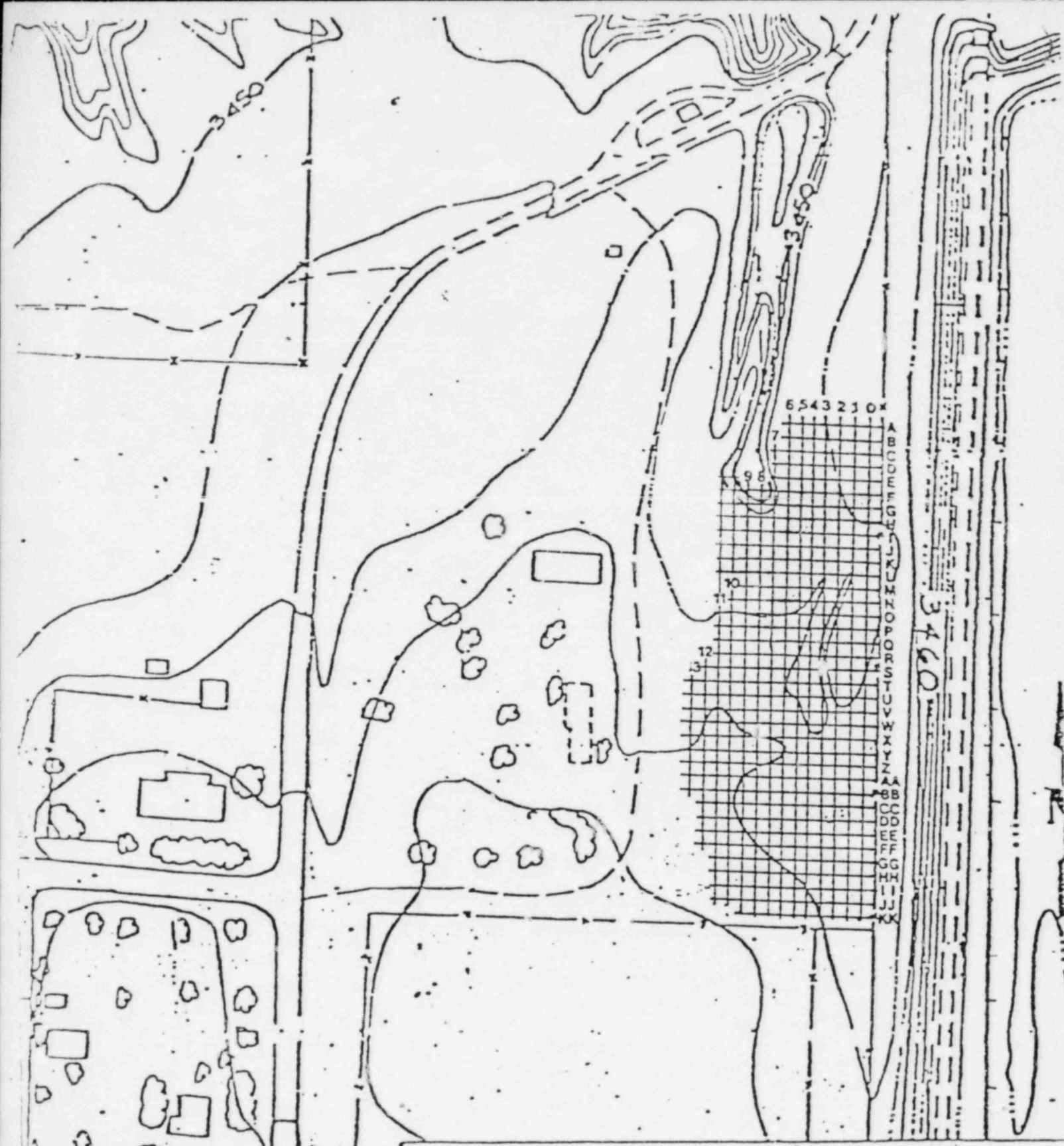
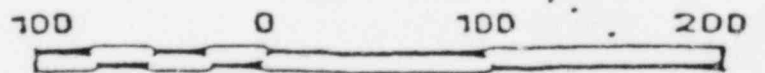


FIGURE B-2 SAMPLING GRID

Scale 1"=100'



POND 7 SEEP AREA

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◆ < 100
 ◇ < 200