

50-315

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TO:
Mr. J. G. Keppler

FROM:
American Elect. Power Service Corp.
New York, N. Y.
R. S. Hunter

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Cook

RJL (1-P)

ENCLOSURE

Consists of updated tables for the Cook Plant Environmentl Operating Rpt. covering the period July through December 1976.....

(20. cys encl rec'd)

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AMERICAN ELECTRIC POWER Service Corporation



2 Broadway, New York, N. Y. 10004
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ROBERT S. HUNTER
Vice President - Nuclear Engineering

April 27, 1977

Donald C. Cook Nuclear Plant
Docket No. 50-315
License No. DPR-58

Regulatory

File 5/5

Mr. J. G. Keppler, Regional Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

The Environmental Operating Report for the Donald C. Cook Nuclear Plant covering the period July through December 1976 was prepared and submitted to the NRC before analysis had been completed on a few remaining samples collected in late 1976 as part of the Environmental Radiation Monitoring Program. This was noted in Section X., page 20, of the report.

Attached please find updated tables which include the results of the analysis of the remaining samples and replace those which appear in Appendix E to the report.

Very truly yours,

A handwritten signature in dark ink, appearing to read "R. S. Hunter".

R. S. Hunter

RSH:mam
Attachments (2)

cc: G. W. Knighton, NRC (40)
Dr. E. Volgenau, NRC (20)
R. W. Jurgensen - Bridgman (2)
G. Charnoff (1)
R. C. Callen (1)

R. J. Vollen (1)
P. W. Steketee (1)
R. Walsh (1)
W. G. McDonald, NRC (2)

771040137

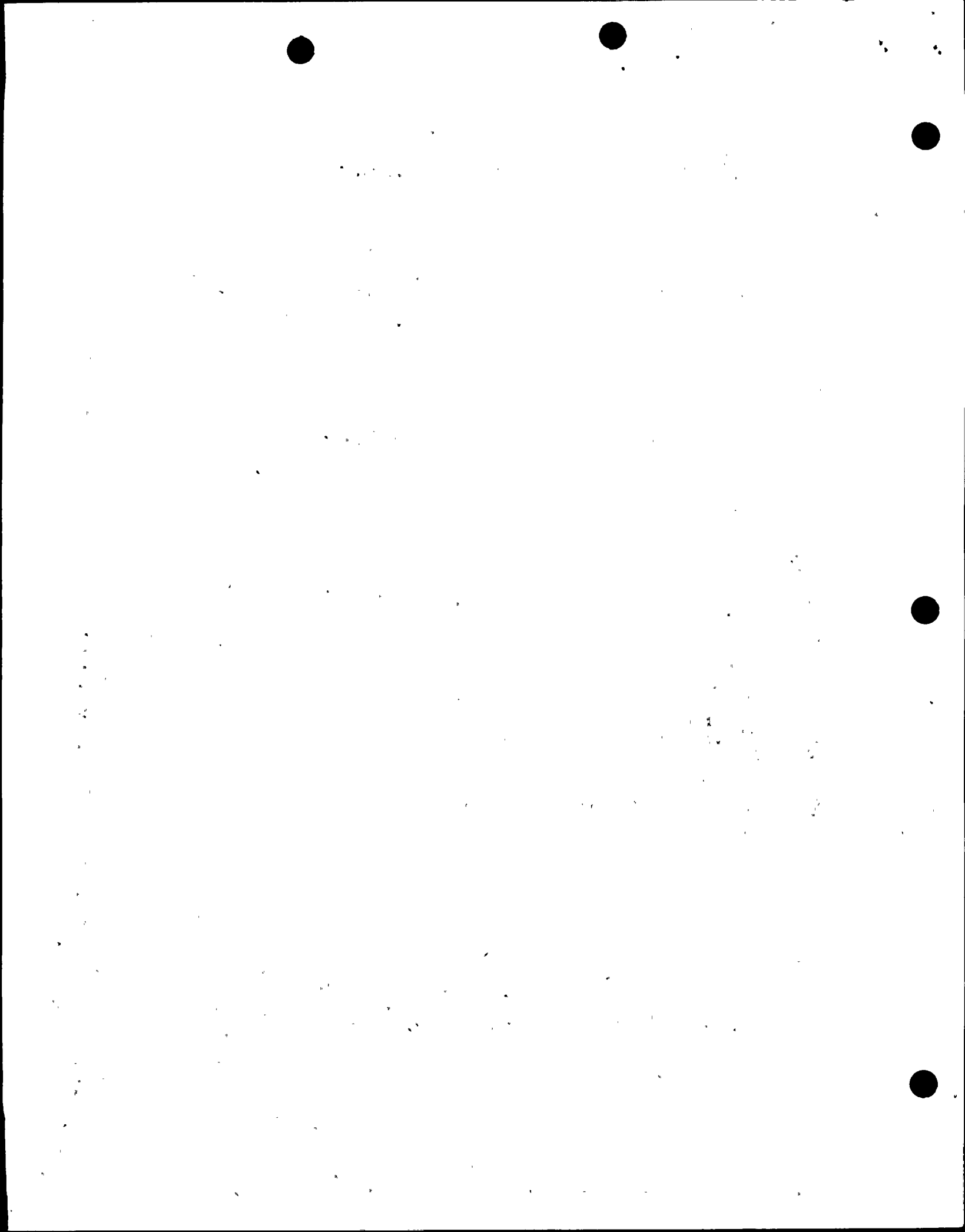
File 922

7/1/1942

AIRBORNE IODINE-131 AND GROSS BETA IN AIR PARTICULATE FILTERS
Indicator Stations

Collection Date	ON-SITE 1			ON-SITE 2		
	Volume (m ³)	10 ⁻² pCi/m ³		Volume (m ³)	10 ⁻² pCi/m ³	
		Gross Beta*	I-131		Gross Beta*	I-131
07/02/76	267	3 ± 1	<10	321	3 ± 1	<10
07/09/76	270	4 ± 1	<10	340	4 ± 1	<10
07/16/76	265	3 ± 1	<10	325	3 ± 1	<10
07/23/76	255	3 ± 1	<10	330	4 ± 1	<10
07/30/76	275	3 ± 1	<10	330	4 ± 1	<10
08/06/76	255	3 ± 1	<10	325	4 ± 1	<10
08/13/76	245	5 ± 1	<10	320	4 ± 1	<10
08/20/76	200	4 ± 1	<10	325	3 ± 1	<10
08/27/76	200	6 ± 1	<10	335	5 ± 1	<10
09/03/76	195	3 ± 1	<10	330	3 ± 1	<10
09/11/76	220	5 ± 1	<10	375	3 ± 1	<10
09/18/76	180	6 ± 1	<10	320	4 ± 1	<10
09/25/76	170	4 ± 1	<10	325	4 ± 1	<10
10/02/76	180	6 ± 1	<10	300	6 ± 1	<10
10/09/76	160	6 ± 1	<10	315	6 ± 1	<10
10/16/76	160	10 ± 1	<10	315	10 ± 1	<10
10/24/76	150	6 ± 1	<10	315	8 ± 1	<10
10/30/76	145	23 ± 3	<10	320	19 ± 3	<10
11/06/76	140	8 ± 1	<10	310	17 ± 2	<10
11/13/76	135	19 ± 4	<10	310	16 ± 3	<10
11/20/76	105	12 ± 3	<10	310	16 ± 3	<10
11/27/76	270	19 ± 2	<10	305	16 ± 2	<10
12/04/76	265	9 ± 2	**	305	19 ± 3	**
12/11/76	255	19 ± 3	<10	325	<10	<10
12/17/76	235	13 ± 2	<10	285	5 ± 1	<10
12/23/76	215	7 ± 2	<10	245	8 ± 2	<10
12/30/76	260	9 ± 2	<10	300	9 ± 2	<10

*(±2σ) **Sample lost in transit.
Data reported as "<" are at the 99% confidence level. All other data are at the 95% confidence level, all based on counting errors.



AIRBORNE IODINE-131 AND GROSS BETA IN AIR PARTICULATE FILTERS
Indicator Stations

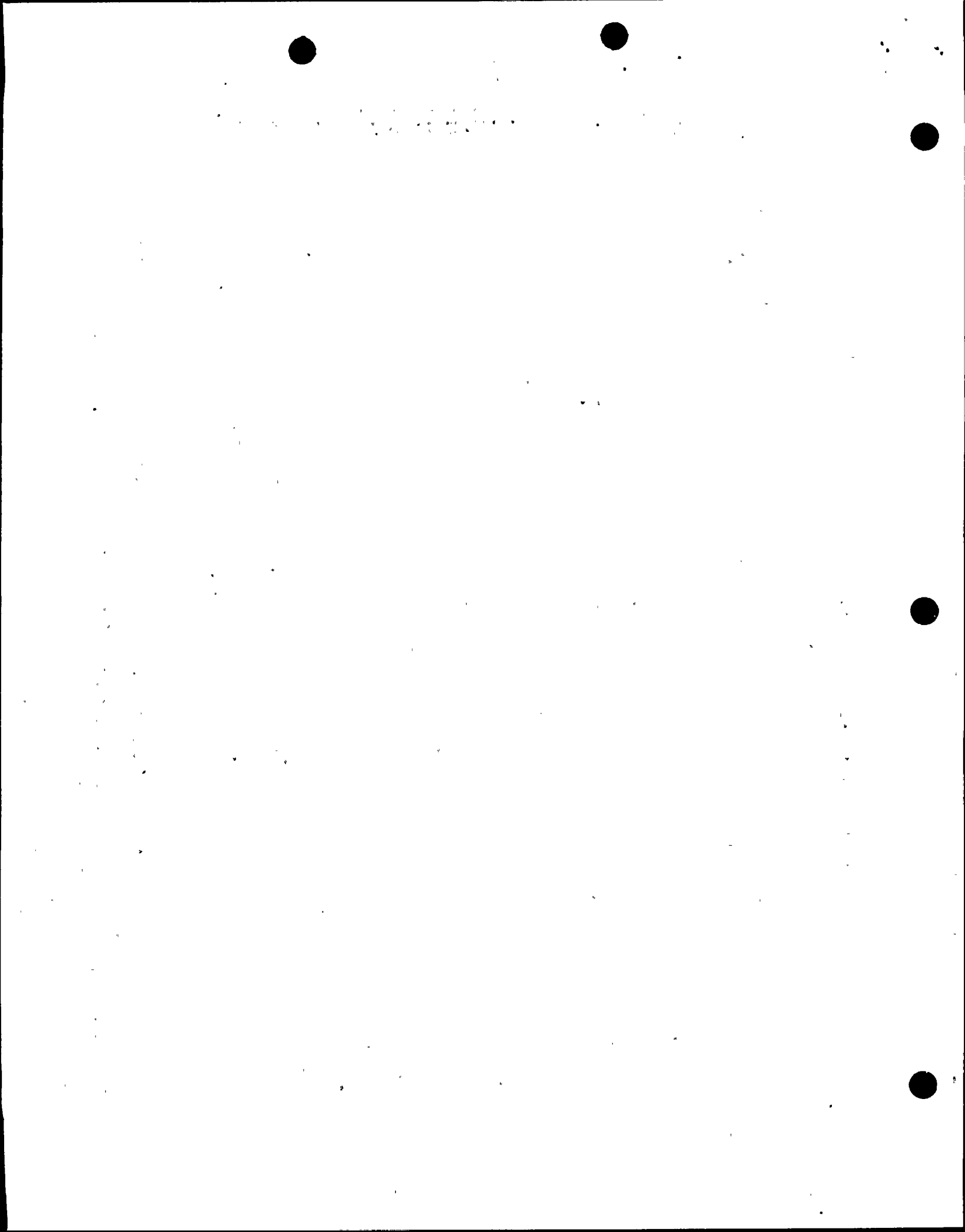
Collection Date	ON-SITE 3			ON-SITE 4		
	Volume (m ³)	10 ⁻² pCi/m ³ Gross Beta ($\pm 2\sigma$)	I-131	Volume (m ³)	10 ⁻² pCi/m ³ Gross Beta ($\pm 2\sigma$)	I-131
07/02/76	267	2 ± 1	<10	296	3 ± 1	<10
07/09/76	265(a)	5 ± 1	<10	290	5 ± 1	<10
07/16/76	265	3 ± 1	<10	270	4 ± 1	<10
07/23/76	255	6 ± 1	<10	75	13 ± 3	<10
07/30/76	250	2 ± 1	<10	270 (a)	5 ± 1	<10
08/06/76	240	3 ± 1	<10	280 (a)	4 ± 1	<10
08/13/76	255	5 ± 1	<10	270 (a)	3 ± 1	<10
08/20/76	80(b)	5 ± 3	<10	330	3 ± 1	<10
08/27/76	295	5 ± 1	<10	275	7 ± 1	<10
09/03/76	305	2 ± 1	<10	275	4 ± 1	<10
09/11/76	330	3 ± 1	<10	315	5 ± 1	<10
09/18/76	290	4 ± 1	<10	275	4 ± 1	<10
09/25/76	305	2 ± 1	<10	285	3 ± 1	<10
10/02/76	295	5 ± 1	<10	280	5 ± 1	<10
10/09/76	285	10 ± 1	<10	275	5 ± 1	<10
10/16/76	285	15 ± 1	<10	275	9 ± 1	<10
10/24/76	285	6 ± 1	<10	255	11 ± 2	<10
10/30/76	290	24 ± 3	<10	260	22 ± 3	<10
11/06/76	295	21 ± 2	<10	265	12 ± 1	<10
11/13/76	290	18 ± 3	<10	265	14 ± 2	<10
11/20/76	290	14 ± 3	<10	265	15 ± 3	<10
11/27/76	290	20 ± 2	<10	260	18 ± 2	<10
12/04/76	280	17 ± 3	<10	250	17 ± 3	(c)
12/11/76	330	<10	<10	250	20 ± 3	<10
12/17/76	260	9 ± 2	<10	230	14 ± 2	<10
12/23/76	235	7 ± 2	<10	210	8 ± 2	<10
12/30/76	285	9 ± 2	<10	250	10 ± 2	<10

Data reported as "<" are at the 99% confidence level. All other data are at the 95% confidence level, all based on counting errors.

(a) Volumetric equipment out-of-order. Average volume used for evaluation.

(b) Low volume - switch turned off.

(c) Sample lost in transit.



AIRBORNE IODINE-131 AND GROSS BETA IN AIR PARTICULATE FILTERS
Indicator Stations

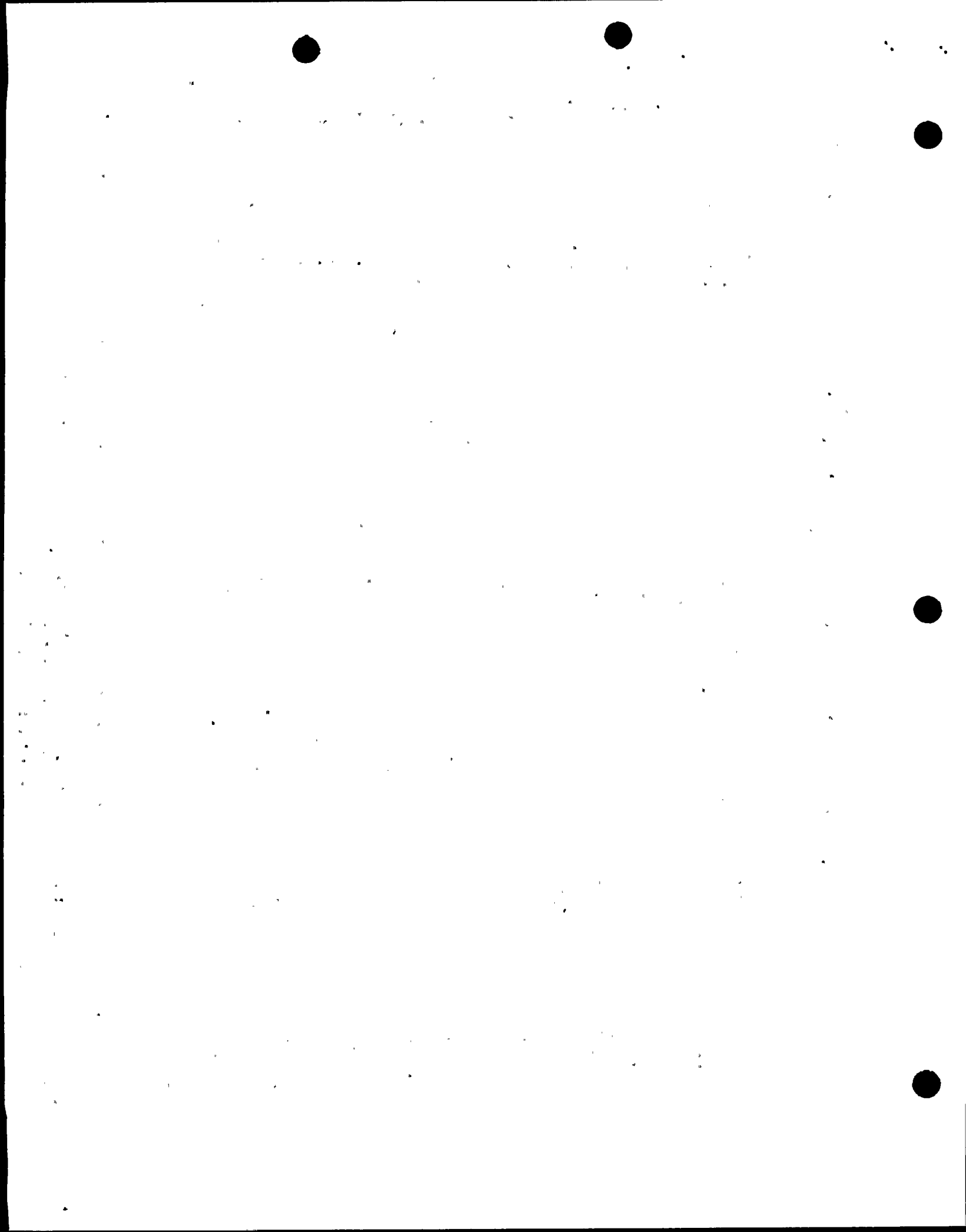
Collection Date	ON-SITE 5			ON-SITE 6		
	Volume (m ³)	10 ⁻² pCi/m ³		Volume (m ³)	10 ⁻² pCi/m ³	
		Gross Beta ($\pm 2\sigma$)	I-131		Gross Beta ($\pm 2\sigma$)	I-131
07/02/76	270(a)	4 ± 1	<10	290	< 1	<10
07/09/76	270(a)	6 ± 1	<10	255	4 ± 1	<10
07/16/76	270(a)	4 ± 1	<10	260	4 ± 1	<10
07/23/76	(b)	(b)	(b)	260	4 ± 1	<10
07/30/76	270(a)	4 ± 1	<10	245	3 ± 1	<10
08/06/76	265(a)	5 ± 1	<10	(b)	---	(b)
08/13/76	260(a)	5 ± 1	<10	85	5 ± 2	<10
08/20/76	240	4 ± 1	<10	275	4 ± 1	<10
08/27/76	235	5 ± 1	<10	(b)	(b)	(b)
09/03/76	225	4 ± 1	<10	(b)	(b)	(b)
09/11/76	255	4 ± 1	<10	140	3 ± 1	<10
09/18/76	235	5 ± 1	<10	(b)	(b)	(b)
09/25/76	210	2 ± 1	<10	(b)	(b)	(b)
10/02/76	210	6 ± 1	<10	45	9 ± 5	<40(c)
10/09/76	200	4 ± 1	<10	120	7 ± 1	<10
10/16/76	185	13 ± 1	<10	165	33 ± 3	<10
10/24/76	180	8 ± 1	<10	265	5 ± 1	<10
10/30/76	175	25 ± 4	<10	260(a)	23 ± 2	<10
11/06/76	260(a)	8 ± 1	<10	260(a)	13 ± 1	<10
11/13/76	90	23 ± 5	<10	150	14 ± 3	<10
11/20/76	165	18 ± 3	<10	275	4 ± 1	<10
11/27/76	270	19 ± 2	<10	255	17 ± 2	<10
12/04/76	265	16 ± 3	<10	235	15 ± 2	(d)
12/11/76	270	11 ± 2	<10	285(a)	<10	<10
12/17/76	240	14 ± 2	<10	225(a)	2 ± 1	<10
12/23/76	230	7 ± 2	<10	225(a)	< 1	<10
12/30/76	155	9 ± 2	<10	(e)	-	-

Data reported as "<" are at the 99% confidence level. All other data are at the 95% confidence level, all based on counting errors.

(a) Volumetric equipment out-of-order. Average volume used for evaluation. (b) System out-of-order.

(c) Lower sensitivity due to small sample. (d) Sample lost in transit.

(e) Sample not available due to weather conditions (ice build-up)

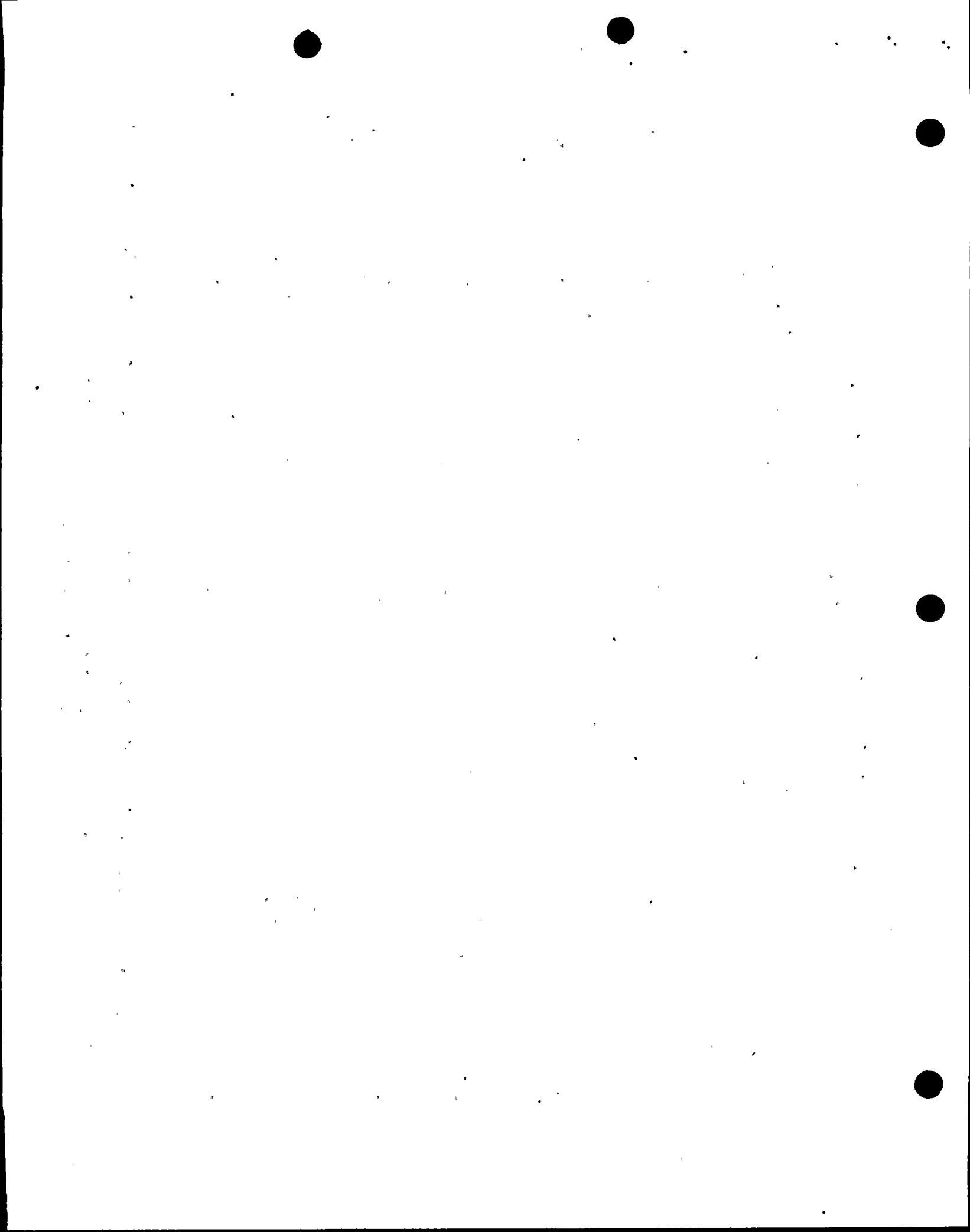


AIRBORNE IODINE-131 AND GROSS BETA IN AIR PARTICULATE FILTERS
Background Stations

Collection Date	NEW BUFFALO			SOUTH BEND		
	Volume (m ³)	10 ⁻² pCi/m ³		Volume (m ³)	10 ⁻² pCi/m ³	
		Gross Beta ($\pm 2\sigma$)	I-131		Gross Beta ($\pm 2\sigma$)	I-131
07/02/76	100	3 \pm 2	<10	275	3 \pm 1	<10
07/09/76	(a)	(a)	(a)	800	4 \pm 1	<10
07/16/76	(a)	(a)	(a)	275	4 \pm 1	<10
07/23/76	(a)	(a)	(a)	275	3 \pm 1	<10
07/30/76	75	<3	<10	265	4 \pm 1	<10
08/06/76	265	4 \pm 1	<10	270	4 \pm 1	<10
08/13/76	250	4 \pm 1	<10	270	5 \pm 1	<10
08/20/76	240	4 \pm 1	<10	270	3 \pm 1	<10
08/27/76	235	7 \pm 1	<10	275	5 \pm 1	<10
09/03/76	215	3 \pm 1	<10	275	4 \pm 1	<10
09/11/76	275	5 \pm 1	<10	315	3 \pm 1	<10
09/18/76	220	6 \pm 1	<10	270	5 \pm 1	<10
09/25/76	285	3 \pm 1	<10	290	2 \pm 1	<10
10/02/76	205	7 \pm 1	<10	285	5 \pm 1	<10
10/09/76	215	4 \pm 1	<10	270	6 \pm 1	<10
10/16/76	185	13 \pm 1	<10	265	8 \pm 1	<10
10/24/76	200	5 \pm 1	<10	275	5 \pm 1	<10
10/30/76	105	66 \pm 10	<10	270	14 \pm 2	<10
11/06/76	260 ^(b)	20 \pm 2	<10	270	15 \pm 1	<10
11/13/76	260 ^(b)	18 \pm 2	<10	250	16 \pm 3	<10
11/20/76	155	29 \pm 5	<10	255	14 \pm 3	<10
11/27/76	250	19 \pm 2	<10	275	14 \pm 2	<10
12/04/76	280	20 \pm 3	<10	240	19 \pm 3	(c)
12/11/76	265	<10	<10	255	21 \pm 3	<10
12/17/76	195 ^(b)	< 1	<10	225	12 \pm 1	<10
12/23/76	225 ^(b)	3 \pm 1	<10	205	7 \pm 2	<10
12/30/76	240 ^(b)	3 \pm 1	<10	(d)	-	-

Data reported as "<" are at the 99% confidence level. All other data are at the 95% confidence level, all based on counting errors.

(a) Station out-of-order. (b) Station out-of-order; average volume used for evaluation. (c) Sample lost in transit. (d) Sample not collected due to weather conditions (ice build-up).

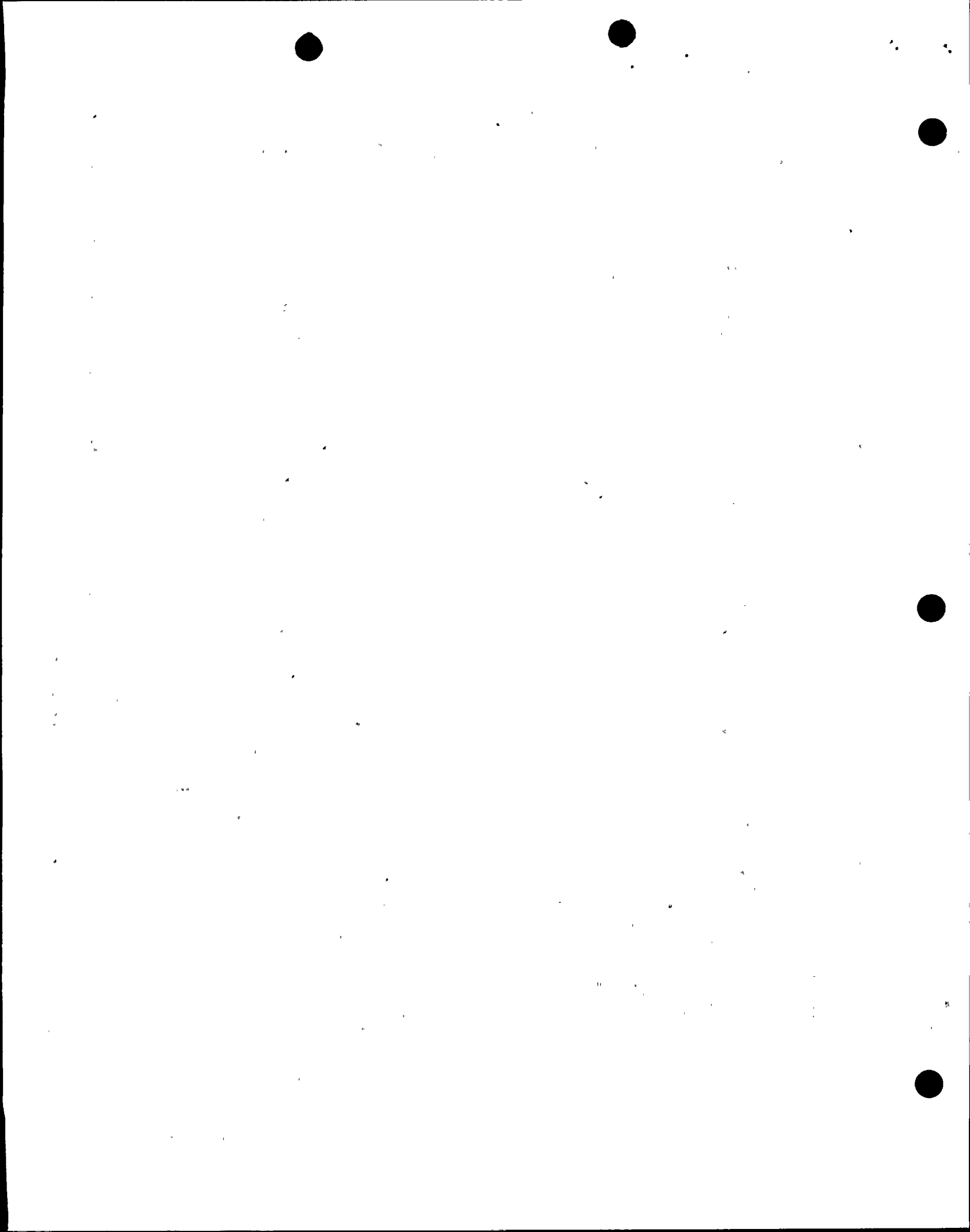


AIRBORNE IODINE-131 AND GROSS BETA IN AIR PARTICULATE FILTERS
Background Stations

Collection Date	DOWAGIAC			COLOMA		
	Volume (m ³)	10 ⁻² pCi/m ³		Volume (m ³)	10 ⁻² pCi/m ³	
		Gross Beta ($\pm 2\sigma$)	I-131		Gross Beta ($\pm 2\sigma$)	I-131
07/02/76	265	2 ± 1	<10	311	3 ± 1	<10
07/09/76	220	2 ± 1	<10	315	4 ± 1	<10
07/16/76	215	2 ± 1	<10	305	3 ± 1	<10
07/23/76	105	3 ± 2	<10	305	3 ± 1	<10
07/30/76	390	2 ± 1	<10	300	4 ± 1	<10
08/06/76	375	3 ± 1	<10	300	4 ± 1	<10
08/13/76	200	3 ± 1	<10	285	4 ± 1	<10
08/20/76	100(a)	3 ± 2	<10	300	3 ± 1	<10
08/27/76	315	3 ± 1	<10	285	6 ± 1	<10
09/03/76	305	3 ± 1	<10	300	2 ± 1	<10
09/11/76	340	4 ± 1	<10	325	4 ± 1	<10
09/18/76	290	3 ± 1	<10	285	5 ± 1	<10
09/25/76	280	2 ± 1	<10	225	4 ± 1	<10
10/02/76	290	3 ± 1	<10	290	5 ± 1	<10
10/09/76	275	4 ± 1	<10	285	4 ± 1	<10
10/16/76	270	4 ± 1	<10	285	10 ± 1	<10
10/24/76	265	7 ± 1	<10	275	4 ± 1	<10
10/30/76	265	16 ± 2	<10	275	47 ± 6	<10
11/06/76	265	6 ± 1	<10	270	18 ± 2	<10
11/13/76	260	9 ± 2	<10	280	18 ± 3	<10
11/20/76	240	5 ± 1	<10	275	16 ± 3	<10
11/27/76	255	9 ± 2	<10	285	18 ± 2	<10
12/04/76	215	9 ± 2	<10	275	12 ± 2	<10
12/11/76	320	12 ± 2	<10	275	13 ± 2	<10
12/17/76	280	4 ± 1	<10	250	< 1	<10
12/23/76	250	5 ± 2	<10	210	9 ± 2	<10
12/30/76	300	1 ± 1	<10	250(b)	10 ± 2	<10

Data reported as "<" are at the 99% confidence level. All other data are at the 95% confidence level, all based on counting errors.

(a) Low volume; switch turned off. (b) Estimated volume.



STRONTIUM 89 AND STRONTIUM 90 ANALYSIS
OF MONTHLY AIR PARTICULATE COMPOSITES

<u>Collection Site</u>	<u>Collection Date</u>	<u>pCi/m³</u>	
		<u>Sr-89</u>	<u>Sr-90</u>
Indicator	3rd qtr/76	< .001	< .001
Background	3rd qtr/76	< .001	< .001
Indicator	4th qtr/76	< .002	< .002
Background	4th qtr/76	< .002	< .002

GAMMA ISOTOPIC (GeLi) ANALYSES OF
AIR PARTICULATE SAMPLES COMPOSITED MONTHLY

COMPOSITE OF INDICATOR STATIONS

<u>Month</u>	<u>pCi/m³</u>	
	<u>Be-7</u>	<u>Other Gamma Emitters*</u>
July	0.8 ± 0.1	< .01
August	0.13 ± 0.01	< .01
September	0.07 ± 0.02	< .01
October	0.02 ± 0.01	< .01
November**	0.06 ± 0.02	< .01**
December	< 0.01	< .01

COMPOSITE OF BACKGROUND STATIONS

<u>Month</u>	<u>pCi/m³</u>	
	<u>Be-7</u>	<u>Other Gamma Emitters*</u>
July	.06 ± .01	< .01
August	.10 ± .01	< .01
September	.02 ± .01	< .01
October	.06 ± .02	< .01
November**	.06 ± .02	< .01**
December	< .02	< .01

**Traces of Ru-103, Rh-102, Ce-141 detected at concentrations below reporting requirements.

*The spectrum is computer scanned from -20 to -2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here. Data listed as "<" are at the 3σ level, others are 2σ. Listed concentration is for Cs-137 and may be slightly more or less sensitive for other nuclides.

QUARTERLY TRITIUM AND MONTHLY GAMMA ISOTOPIC (GeLi) ANALYSES OF
LAKE MICHIGAN WATERS

Collection Site	Collection Date	Gamma Isotopic pCi/l*	Quarterly Comp. HTO pCi/ml ($\pm 2\sigma$)	
Indicator Station	July 1976	< 10		
	Aug. 1976	< 10		
	Sept 1976	< 10	0.42	± 0.10
	Oct. 1976	< 10		
	Nov. 1976	< 10		
	Dec. 1976	**		0.31
Background Station	July 1976	< 10		
	Aug. 1976	< 10		
	Sept 1976	< 10	0.36	± 0.10
	Oct. 1976	< 10		
	Nov. 1976	< 10		
	Dec. 1976	< 10		0.37

STRONTIUM-89, STRONTIUM-90 AND GAMMA ISOTOPIC (GeLi) ANALYSES OF
PRECIPITATION

Collection Site	Collection Date	Nuclides* Observed	Semi-Annual Comp.	
			Sr-89	Sr-90
Indicator	07/23/76	< 10	< 5	< 2
	08/20/76	< 10		
	09/18/76	< 10		
	10/09/76	< 10		
	11/13/76	< 10		
	12/11/76	< 10		
Background	07/23/76	< 10	< 5	< 2
	08/20/76	< 10		
	09/18/76	< 10		
	10/09/76	< 10		
	11/13/76	< 10		
	12/11/76	< 10		

*ND indicates gamma emitters other than natural radioactivity were not detected. Individual nuclides (Cs-134, Cs-137, Co-60, Ba-140, La-140, I-131) that may be attributable to plant operation are listed when detected. Unless otherwise noted, sensitivity for listed gamma emitters is <10 pCi/l.

**No sample available due to frozen lake.

. IODINE-131 IN MILK SAMPLES

Collection Site	pCi/l as of collection date					
	<u>07/16/76</u>	<u>08/13/76</u>	<u>09/11/76</u>	<u>10/09/76</u>	<u>11/06/76</u>	<u>12/04/76</u>
Indicator Stations						
Bridgman K2	< 0.5	< 3.0 [†]	< 0.5	< 0.5	< 0.5	< 1.1 [†]
Scottsdale K1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.1 [†]
Stevensville K1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	+
Stevensville K2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0 [†]
Background Stations						
Dowagiac K1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.1 [†]
South Bend K1	< 0.5	< 0.5*	< 0.6**	< 0.5	< 0.5	< 0.5

*collected 08/20/76

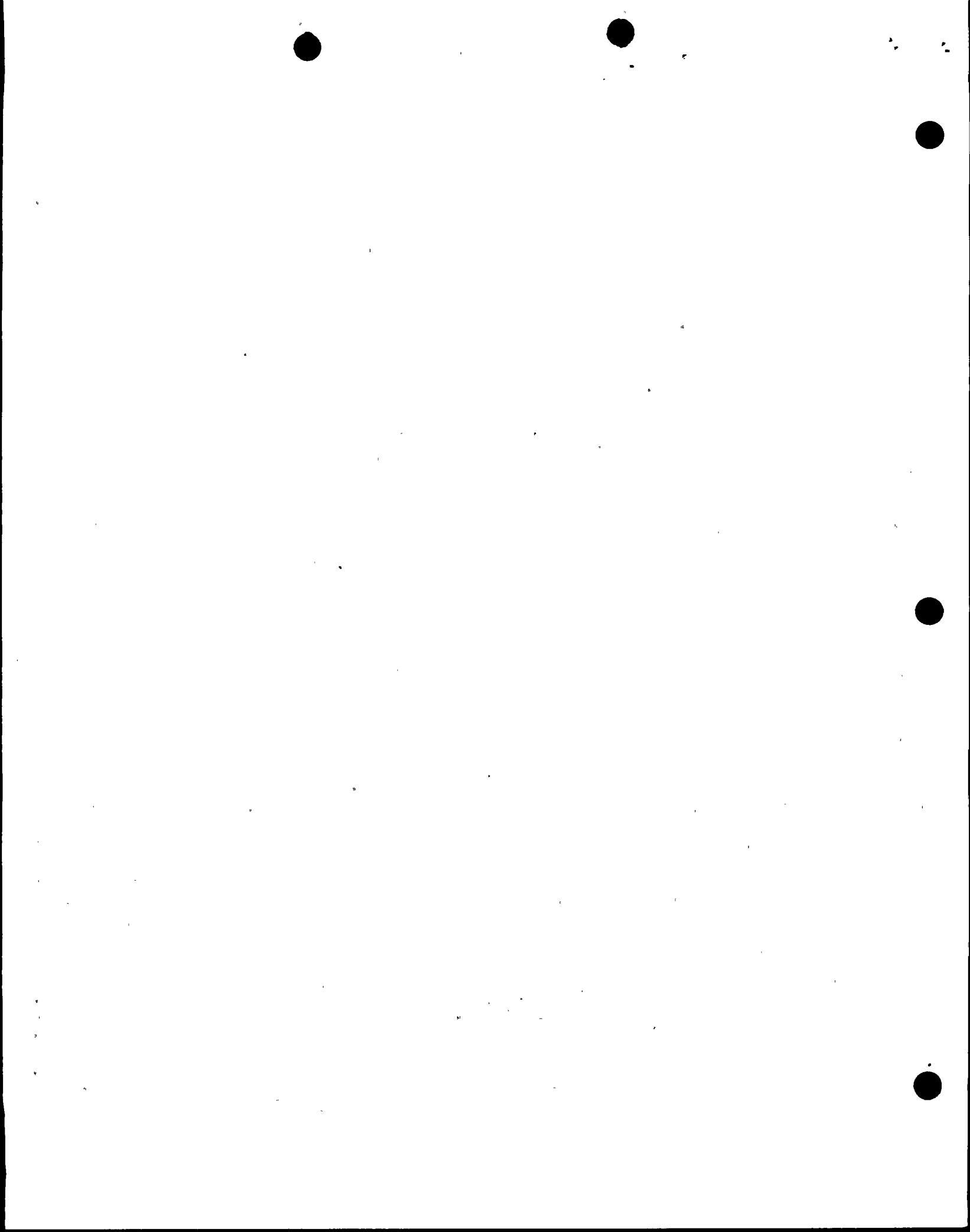
**collected 09/18/76

†Damage and delay of samples in transit precludes obtaining higher sensitivity, Stevensville K1 was unsalvageable.

STRONTIUM-89* AND STRONTIUM-90 ANALYSES OF MILK SAMPLES
STRONTIUM-90 (pCi/l)

Collection Site	pCi/l					
	<u>07/16/76</u>	<u>08/13/76</u>	<u>09/11/76</u>	<u>10/09/76</u>	<u>11/06/76</u>	<u>12/04/76</u>
Indicator Stations						
Bridgman K2	6 ± 2	4 ± 2	4 ± 1	8 ± 2	5 ± 2	1 ± 1
Scottsdale K1	5 ± 2	5 ± 2	5 ± 1	6 ± 2	5 ± 1	< 1
Stevensville K1	4 ± 2	3 ± 2	4 ± 1	3 ± 1	2 ± 1	(c)
Stevensville K2	8 ± 3	< 1	3 ± 1	5 ± 2	4 ± 1	7 ± 1
Background Stations						
Dowagiac K1	5 ± 2	8 ± 3	9 ± 2	9 ± 2	8 ± 2	11 ± 2
South Bend K1	4 ± 2	8 ± 3(a)	8 ± 2(b)	5 ± 1	5 ± 1	< 1

*Strontium-89 was determined on each sample and was <5 pCi/l unless otherwise noted.
(a) Collected 08/20/76
(b) Collected 09/13/76
(c) Sample lost in transit.



GAMMA ISOTOPIC (GeLi) ANALYSES OF MILK SAMPLES

Collection Date	Collection Site		pCi/l		
			K-40	Cs-137	Gamma*
07/16/76	Bridgman	K-2	1067 ± 27	<5	<5
07/16/76	Scottsdale	K-1	926 ± 79	<5	<5
07/16/76	Stevensdale	K-1	1074 ± 85	<5	<5
07/16/76	Stevensdale	K-2	1247 ± 29	4.3 ± 0.4	<5
07/16/76	Dowagiac	K-1	1033 ± 84	<5	<5
07/16/76	South Bend	K-1	969 ± 81	<5	<5
08/13/76	Bridgman	K-2	1219 ± 104	<10	<10
08/13/76	Scottsdale	K-1	930 ± 80	<10	<10
08/13/76	Stevensdale	K-1	923 ± 79	<10	<10
08/13/76	Stevensdale	K-2	1112 ± 36	<10	<10
08/13/76	Dowagiac	K-1	873 ± 77	<10	<10
08/20/76	South Bend	K-1	1064 ± 85	< 5	< 5
09/11/76	Bridgman	K-2	957 ± 114	<10	<10
09/11/76	Scottsdale	K-1	913 ± 111	<10	<10
09/11/76	Stevensdale	K-1	1037 ± 119	< 3	< 3
09/11/76	Stevensdale	K-2	1064 ± 120	< 3	< 3
09/11/76	Dowagiac	K-1	802 ± 52	<10	<10
09/18/76	South Bend	K-1	897 ± 110	< 5	< 5
10/09/76	Bridgman	K-2	1186 ± 127	<10	<10
10/09/76	Scottsdale	K-1	829 ± 54	<10	<10
10/09/76	Stevensdale	K-1	894 ± 110	< 5	< 5
10/09/76	Stevensdale	K-2	823 ± 106	< 5	< 5
10/09/76	Dowagiac	K-1	1051 ± 85	<10	<10
10/09/76	South Bend	K-1	1034 ± 119	<10	<10
11/06/76	Bridgman	K-2	1205 ± 128	<10	<10
11/06/76	Scottsdale	K-1	877 ± 109	<10	<10
11/06/76	Stevensdale	K-1	920 ± 112	<10	<10
11/06/76	Stevensdale	K-2	1068 ± 121	<10	<10
11/06/76	Dowagiac	K-1	928 ± 112	<10	<10
11/06/76	South Bend	K-1	949 ± 114	<10	<10
12/04/76	Bridgman	K-2	962 ± 114	<10	<10
12/04/76	Scottsdale	K-1	830 ± 106	<10	<10
12/04/76	Stevensdale	K-1	**	**	**
12/04/76	Stevensdale	K-2	880 ± 109	< 5	< 5
12/04/76	Dowagiac	K-1	1061 ± 120	< 5	< 5
12/04/76	South Bend	K-1	1037 ± 119	<10	<10

*The spectrum is computer scanned from -20 to -2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here. Data listed as "<" are at the 3σ level, others are 2σ. Listed concentration is for Cs-137 and may be slightly more or less sensitive for other nuclides.

**Sample lost in transit.

GAMMA RADIATION
Quarterly

(Measured using Thermoluminescent Dosimeters)

Date Annealed: 06/24/76 09/28/76
Date Read: 10/12/76 01/13/77

<u>Location</u>	<u>Measured mR/Week</u>	<u>Measured mR/Week</u>
Control	1.15 ± 0.09	0.79 ± 0.17
Indicator Stations		
On-Site 1	1.39 ± 0.31	0.97 ± 0.20
On-Site 2	1.37 ± 0.14	0.96 ± 0.14
On-Site 3	1.23 ± 0.22	0.98 ± 0.18
On-Site 4	1.30 ± 0.10	0.97 ± 0.06
On-Site 5	1.47 ± 0.47	1.02 ± 0.18
On-Site 6	1.36 ± 0.08	*
Background Stations		
Coloma	1.21 ± 0.21	0.88 ± 0.18
Dowagiac	1.15 ± 0.18	*
South Bend	1.50 ± 0.12	0.86 ± 0.14
New Buffalo	1.50 ± 0.14	1.12 ± 0.10

*These badges were not available.

